Control panels / stations and switches

for hazardous areas

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HCS1P series for zones 1/2 and 21/22

Configuration of control panels / stations and switches for hazardous areas



HCS1P control stations, made of glass-reinforced polyester (GRP), are designed for use in hazardous areas: 1, 2 (gases) and 21, 22 (dust). They feature high resistance to corrosion and UV radiation, ensuring durability even in harsh industrial environments. The control stations are used in such industries as the chemical, petrochemical and energy industries, among others.

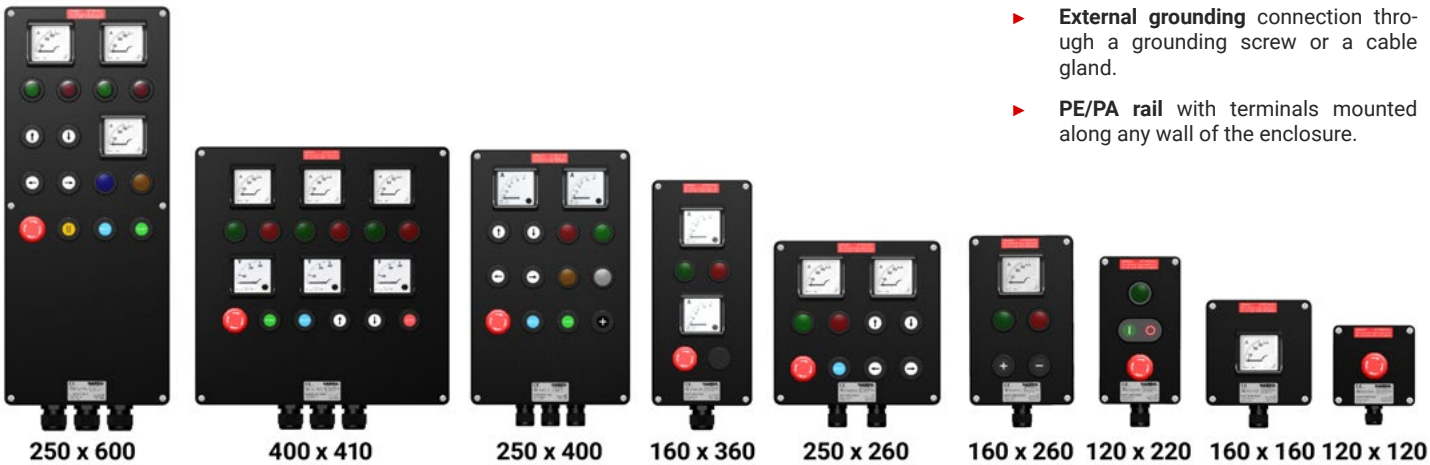
Design features

- **The robust, thick enclosure walls (4.5–9 mm)** ensure high structural rigidity and allow the use of threads with a large number of turns, further enhancing the device's reliability.
- **Silicone cover gasket**, which effectively protects the interior of the case from the ingress of moisture and dirt.
- **Cover screws**, made of AISI 316L stainless steel, guarantee durability and resistance to harmful external factors.
- **Internal mounting screws**, made of corrosion-resistant materials, significantly increase the durability and service life of the entire structure.

Accessories

- **Cable glands made of polyamide or steel** (brass / nickel-plated brass / stainless steel; reinforced cables / unreinforced cables).
- **Grounding plate** for metal glands (stainless steel / brass; 2mm thick / 3mm thick)
- **Brass earth tags** for metal cable glands (a cost-effective solution replacing the grounding plate, used when mounting up to 2 cable glands on one wall).
- **Mounting plate** allowing mounting of up to 3 DIN rails in different orientations (vertical / horizontal) and at different heights.
- **External grounding** connection through a grounding screw or a cable gland.
- **PE/PA rail** with terminals mounted along any wall of the enclosure.

Wide selection of enclosures - with up to 9 size options



Buttons and switches

AC-12	AC-15	DC-13	AC-3	AC-23	U_{imp}	I_{cw}	I_{cm}	Short-circuit protection
400 V/16A	400V/10A	125 V/2A	400 V/16A	400 V/16A	6 kV	0,4 kA/1s	0,566 kA	16A / 500V

U_{imp} - rated impulse withstand voltage | I_{cw} - rated short-time withstand current | I_{cm} - rated short-circuit making capacity

SERIES 0201-7



Contacts	Assembly
2 + NO, NC	Cover

○

SERIES 0201-6



Contacts	Assembly
2 + NO, NC	DIN rail

○

SERIES 0201-7



Contacts	Assembly
4 + NO, NC	Cover

○○

SERIES 0201-6



Contacts	Assembly
4 + NO, NC	DIN rail

○○

0201-C SERIES



Contacts	Assembly
4 + NO, NC	DIN rail

(with open circuit and short circuit detection)

○○

SERIES 0201-H



Contacts	Assembly
4 + NO, NC	DIN rail

(control switch or isolation switch)

○○







P1
Ø 39 mm



P2
39/70 mm





P3E
Ø 40 mm

Y
Ø 39 mm





P6B
Ø 40 mm

P6E
Ø 40 mm

P7B
Ø 55 mm

P7E
Ø 55 mm

Y2B
Ø 39 mm

Y2E
Ø 39 mm

VB6
Ø 39 mm

VE6
Ø 39 mm

KB
Ø 39 mm

SE
Ø 61,5 mm

SB
Ø 61,5 mm

HB
Ø 61,5 mm

HE3
Ø 61,5 mm

○○ the space the component occupies in the enclosure (see section: Component layout)

Illuminated buttons

SERIES 0212-7 Ø 39 mm

Ex db eb IIC Gb



Ex ia IIC Ga



Assembly	Cover
Contacts	1NO / 1NC
Colors	● ● ● ● ○

o

SERIES 0212-6 Ø 39 mm

Ex db eb IIC Gb



Ex ia IIC Ga



Assembly	DIN rail
Contacts	1NO / 1NC
Colors	● ● ● ● ○

o

Indicator lamps

SERIES 0202-7 Ø 39 mm

Ex db eb IIC Gb



Ex ia IIC Ga



Assembly	Cover
Colors	● ● ● ● ○

o

SERIES 0202-7 Ø 39 mm

Ex db eb IIC Gb



Ex ia IIC Ga



Assembly	DIN rail
Colors	● ● ● ● ○

o

Potentiometers

SERIES 0203-7 Ø 39 mm



Ex db eb IIC Gb

Assembly	Cover
Voltage	Up to 200V DC
Power	Up to 0.1W
Resistance	100Ω ÷ 2MΩ
Scope	0 ÷100%

o

SERIES 0203-6 Ø 39 mm



Ex db eb IIC Gb

Assembly	DIN rail
Voltage	Up to 200V DC
Power	Up to 0.1W
Resistance	100Ω ÷ 2MΩ
Scope	0 ÷100%

o

Ammeters / voltmeters

Ammeters | SERIES 0205-6 and 7 70X70 mm





Ex db eb IIC Gb

Assembly	DIN rail (left) Cover (right)
Measurement	up to 40 mA up to 3000 A

▢

Voltmeters | SERIES 0205-6 and 7 70X70 mm





Ex db eb IIC Gb

Assembly	DIN rail (left) Cover (right)
Measurement	up to 500 V

▢

oo the space the component occupies in the enclosure (see section: Component layout)

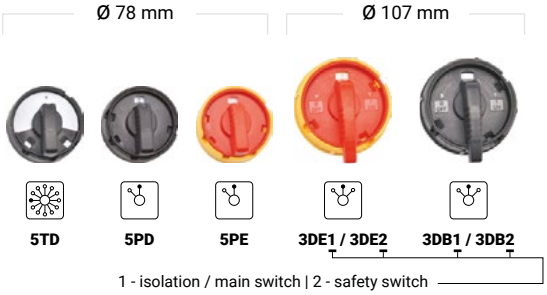
Main / isolation / control / safety switches

SERIES 0513



Assembly	Mounting plate
Contacts	2 to 12 + NO, NC, PE, N
Voltage	230 - 690 V
Current	20A / 25A / 35A /40A / 63A / 75A / 80A
Voltage U_i / U_{imp}	800 V / 6kV
Category of use	AC-23, AC-3, AC-11
Voltage	0 ÷100%

≤25A >25A



Motor switches

SERIES 0513



Assembly	Mounting plate
Contacts	3 + NO, NC, PE, D1, D2
Voltage	440 V
Current	25A
Overload trigger setting range	0.1 ~ 25A
Voltage U_i / U_{imp}	800 V / 6kV
Connecting capacity of the motor in AC3 category	High, up to 440V/25A
Voltage	0 ÷100%



Warning devices (acoustic / acoustic-optical)

SERIES 0201-H Ø 50 mm



sound



sound + light

Sound	Assembly	Voltage Rating:	Terminals	Degree of protection
60 dB (at a distance of 30 cm)	Cover	AC/DC 10-28V AC/DC 20-250V	2 x 2,5 mm²	IP 66

the space the component occupies in the enclosure (see section: Component layout)

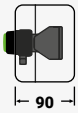
Arrangement of components

Housing: HCS1P 121209



Examples

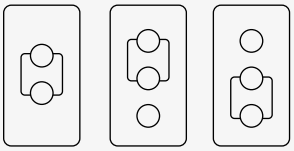


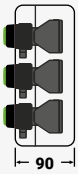


Housing: HCS1P 122209



Examples

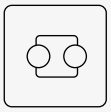


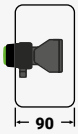


Housing: HCS1P 161609



Examples

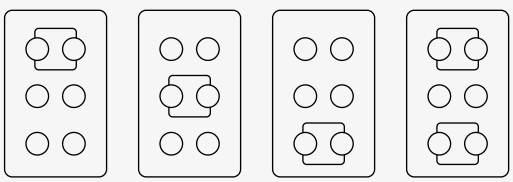


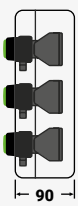


Housing: HCS1P 162609



Examples





○ 2-pole switch or button / double button / indicator light

○○ 4-pole switch or button

▢ ammeter / voltmeter

▬ DIN rail

○○ isolation / main / safety / motor circuit breaker 20A, 25A (only housing HCS1P 161609 and larger)

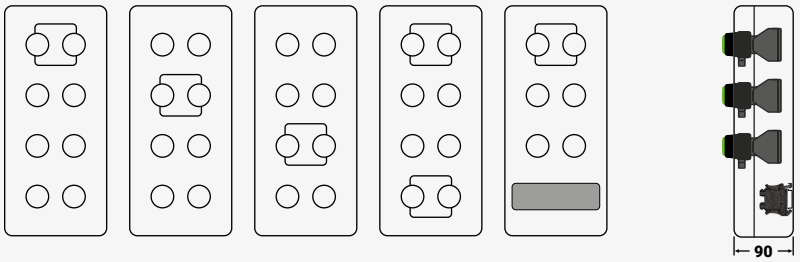
○○○○ isolation / main / safety switch 35A, 40A, 63A, 75A, 80A (HCS1P 252616 / 254016 enclosures only)

Arrangement of components

Housing: HCS1P 163609



Examples

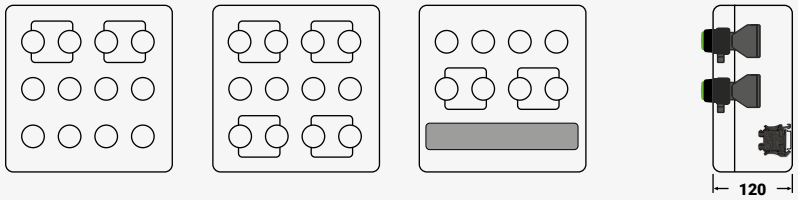


Terminals: 1 x 25 [2.5mm²] or 1 x 21 [4mm²]

Housing: HCS1P 252612 / 252616

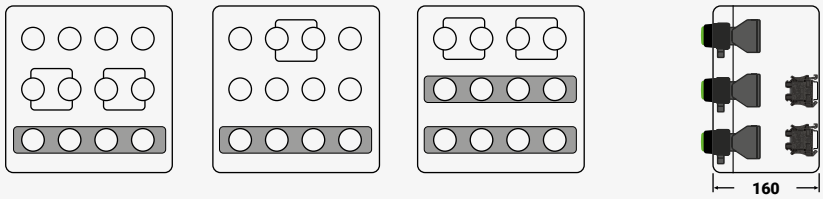


Examples: HCS1P 252612



Terminals: 1 x 39 [2.5mm²] or 1 x 32 [4mm²]

Examples: HCS1P 252616

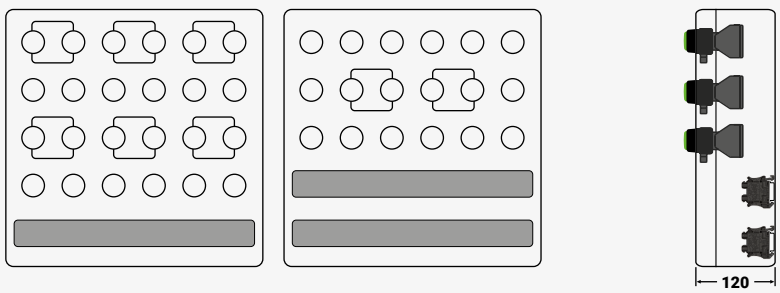


Terminals: 2 x 39 [2.5mm²] or 2 x 32 [4mm²]

Housing: HCS1P 404112



Examples



Terminals: 2 x 66 [2.5mm²] or 2 x 56 [4mm²]

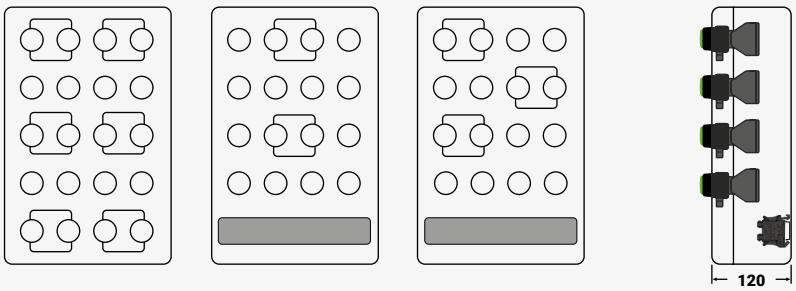
- 2-pole switch or button / double button / indicator light
- 4-pole switch or button
- ammeter / voltmeter
- DIN rail
- isolation / main / safety / motor circuit breaker 20A, 25A (only housing HCS1P 161609 and larger)
- isolation / main / safety switch 35A, 40A, 63A, 75A, 80A (HCS1P 252616 / 254016 enclosures only)

Arrangement of components

Housing:
HCS1P 254012 / 254016

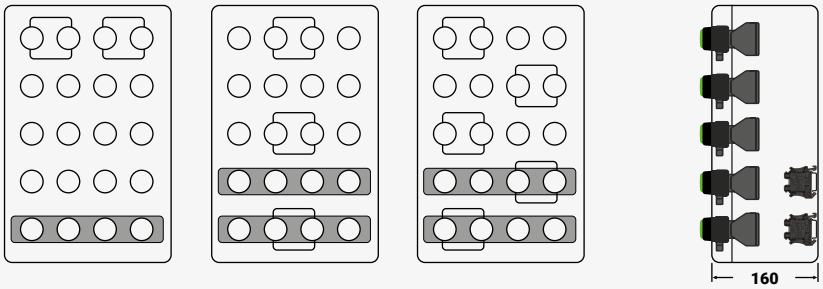


Examples: HCS1P 254012



Terminals: 1 x 42 [2.5mm²] or 1 x 35 [4mm²]

Examples: HCS1P 254016

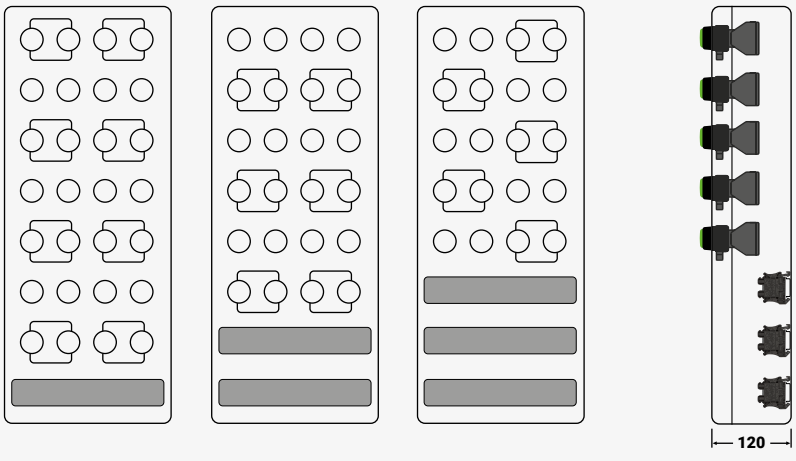


Terminals: 2 x 42 [2.5mm²] or 2 x 35 [4mm²]

Enclosure: HCS1P 256012



Examples

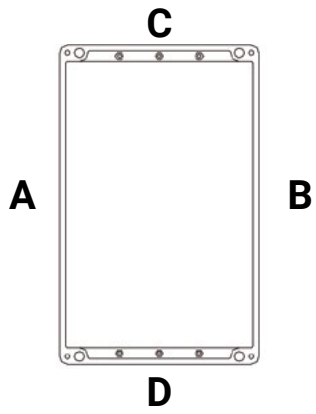


Terminals: 3 x 42 [2.5mm²] or 3 x 35 [4mm²]

- 2-pole switch or button / double button / indicator light
- 4-pole switch or button
- ammeter / voltmeter
- DIN rail
- isolation / main / safety / motor circuit breaker 20A, 25A (only housing HCS1P 161609 and larger)
- isolation / main / safety switch 35A, 40A, 63A, 75A, 80A (HCS1P 252616 / 254016 enclosures only)

Selection of cable glands - maximum number

	Walls	Size of cable glands							
		M12	M16	M20	M25	M32	M40	M50	M63
HTB1P 121209 [120x120x90mm]	A/B	15	12	6	3	2	1	1	-
	C/D	9	6	4	2	1	1	1	-
HTB1P 122209 [220x120x90mm]	A/B	30	24	12	9	4	3	3	-
	C/D	9	6	4	2	1	1	1	-
HTB1P 161609 [160x160x90mm]	A/B	24	15	8	6	2	2	2	-
	C/D	15	12	6	3	2	1	1	-
HTB1P 162609 [260x160x90mm]	A/B	48	27	14	12	5	4	3	-
	C/D	15	12	6	3	2	1	1	-
HTB1P 163609 [360x160x90mm]	A/B	68	39	22	18	7	5	4	-
	C/D	15	12	6	3	2	1	1	-
HTB1P 252612 [255x250x120mm]	A/B	55	36	21	12	10	4	3	2
	C/D	50	32	18	10	8	3	2	2
HTB1P 252616 [255x250x160mm]	A/B	55	36	21	12	10	4	3	2
	C/D	50	32	18	10	8	3	2	2
HTB1P 254012 [400x250x120mm]	A/B	95	60	36	20	16	6	5	4
	C/D	50	32	18	10	8	3	2	2
HTB1P 254016 [400x250x160mm]	A/B	95	60	36	20	16	6	5	4
	C/D	50	32	18	10	8	3	2	2
HTB1P 256012 [600x250x120mm]	A/B	150	96	57	32	26	10	8	6
	C/D	50	32	18	10	8	3	2	2
HTB1P 414012 [400x405x120mm]	A/B	95	60	36	20	16	6	5	4
	C/D	90	56	33	18	15	6	5	4



Cable glands

Material.

- polyamide
- stainless steel
- nickel-plated brass
- brass

Type

- for armored cables
- for unarmoured cables

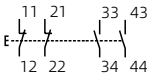
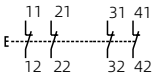
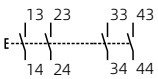
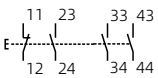
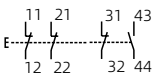
Grounding

- internal grounding plate
- earthing tag

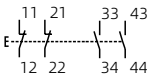
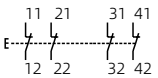
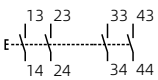
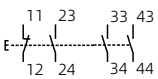
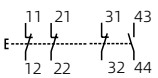
Clamping range	
Cable gland size	**Range** [mm]
M12	5 -7
M16	7 - 10
M20	5,5 - 13
M25	8 - 17,5
M32	14 - 17,5
M40	19 - 28
M50	24 - 35
M63	29 - 48

Standard gland ranges, other gland models available on request

Buttons and switches

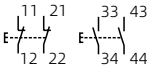
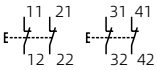
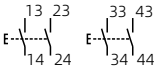
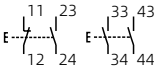
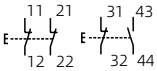
Mounting on the cover	Descriptions	Electrical diagram		Reference number
 2-pole	**0、I、START、STOP**		1NC/1NO	70SL-P100
	0、I、START、STOP		2NC	71SL-P100
	0、I、START、STOP		2NO	72SL-P100
 4-pole	**0、I、START、STOP**		2NC/2NO	750SL-P100
	0、I、START、STOP		4NC	751SL-P100
	0、I、START、STOP		4NO	752SL-P100
	0、I、START、STOP		1NC/3NO	753SL-P100
Ø 39 mm	**0、I、START、STOP**		3NC/1NO	754SL-P100

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

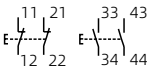
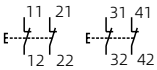
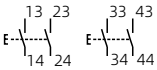
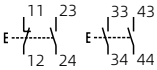
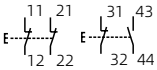
DIN rail mounting	Descriptions	Electrical diagram		Reference number
 2-pole	**0、I、START、STOP**		1NC/1NO	60SL-P100
	0、I、START、STOP		2NC	61SL-P100
	0、I、START、STOP		2NO	62SL-P100
 4-pole	**0、I、START、STOP**		2NC/2NO	650SL-P100
	0、I、START、STOP		4NC	651SL-P100
	0、I、START、STOP		4NO	652SL-P100
	0、I、START、STOP		1NC/3NO	653SL-P100
Ø 39 mm	**0、I、START、STOP**		3NC/1NO	654SL-P100

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Buttons and switches

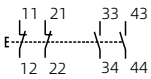
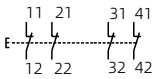
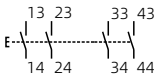
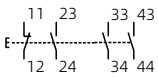
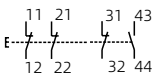
Mounting on the cover	Descriptions	Electrical diagram		Reference number
 2-pole	**0、I、START、STOP**		1NC/1NO	70SL-P200
	0、I、START、STOP		2NC	71SL-P200
	0、I、START、STOP		2NO	72SL-P200
 4-pole	**0、I、START、STOP**		2NC/2NO	750SL-P200
	0、I、START、STOP		4NC	751SL-P200
	0、I、START、STOP		4NO	752SL-P200
	0、I、START、STOP		1NC/3NO	753SL-P200
Ø 39 mm	**0、I、START、STOP**		3NC/1NO	754SL-P200

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

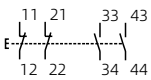
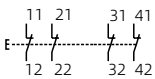
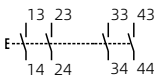
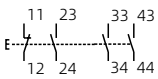
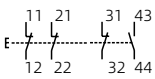
DIN rail mounting	Descriptions	Electrical diagram		Reference number
 2-pole	**0、I、START、STOP**		1NC/1NO	60SL-P200
	0、I、START、STOP		2NC	61SL-P200
	0、I、START、STOP		2NO	62SL-P200
 4-pole	**0、I、START、STOP**		2NC/2NO	650SL-P200
	0、I、START、STOP		4NC	651SL-P200
	0、I、START、STOP		4NO	652SL-P200
	0、I、START、STOP		1NC/3NO	653SL-P200
Ø 39 mm	**0、I、START、STOP**		3NC/1NO	654SL-P200

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Buttons and switches

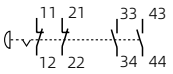
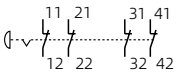
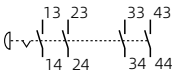
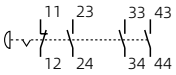
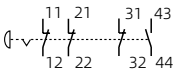
Mounting on the cover	Electrical diagram		Reference number
 2-pole		1NC/1NO	70SL-P3E
		2NC	71SL-P3E
		2NO	72SL-P3E
 4-pole		2NC/2NO	750SL-P3E
		4NC	751SL-P3E
		4NO	752SL-P3E
		1NC/3NO	753SL-P3E
Ø 40 mm		3NC/1NO	754SL-P3E

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

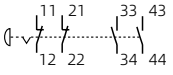
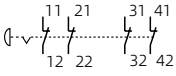
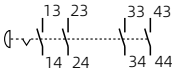
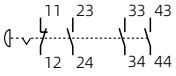
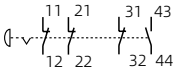
DIN rail mounting	Electrical diagram		Reference number
 2-pole		1NC/1NO	60SL-P3E
		2NC	61SL-P3E
		2NO	62SL-P3E
 4-pole		2NC/2NO	650SL-P3E
		4NC	651SL-P3E
		4NO	652SL-P3E
		1NC/3NO	653SL-P3E
Ø 40 mm		3NC/1NO	654SL-P3E

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Buttons and switches

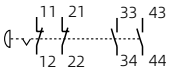
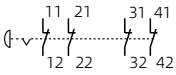
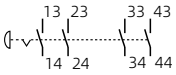
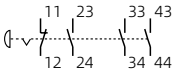
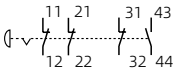
Mounting on the cover	Electrical diagram		Reference number
		1NC/1NO	70SL-P6B
2-pole		2NC	71SL-P6B
		2NO	72SL-P6B
		2NC/2NO	750SL-P6B
		4NC	751SL-P6B
4-pole		4NO	752SL-P6B
		1NC/3NO	753SL-P6B
Ø 40 mm		3NC/1NO	754SL-P6B

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
B - black version - (optional: E - red-yellow version for safety switches)

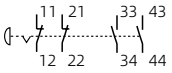
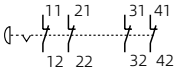
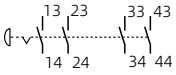
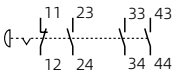
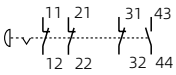
DIN rail mounting	Electrical diagram		Reference number
		1NC/1NO	60SL-P6B
2-pole		2NC	61SL-P6B
		2NO	62SL-P6B
		2NC/2NO	650SL-P6B
		4NC	651SL-P6B
4-pole		4NO	652SL-P6B
		1NC/3NO	653SL-P6B
Ø 40 mm		3NC/1NO	654SL-P6B

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
B - black version - (optional: E - red-yellow version for safety switches)

Buttons and switches

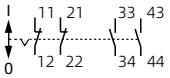
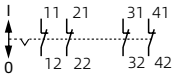
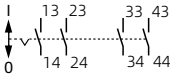
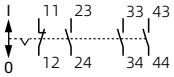
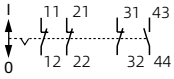
Mounting on the cover	Electrical diagram		Reference number
 2-pole		1NC/1NO	70SL-P7B
		2NC	71SL-P7B
		2NO	72SL-P7B
 4-pole		2NC/2NO	750SL-P7B
		4NC	751SL-P7B
		4NO	752SL-P7B
 Ø 55 mm		1NC/3NO	753SL-P7B
		3NC/1NO	754SL-P7B

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
B - black version - (optional: E - red-yellow version for safety switches)

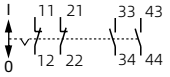
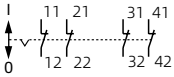
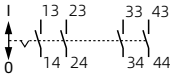
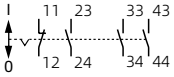
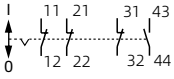
DIN rail mounting	Electrical diagram		Reference number
 2-pole		1NC/1NO	60SL-P7B
		2NC	61SL-P7B
		2NO	62SL-P7B
 4-pole		2NC/2NO	650SL-P7B
		4NC	651SL-P7B
		4NO	652SL-P7B
 Ø 55 mm		1NC/3NO	653SL-P7B
		3NC/1NO	654SL-P7B

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
B - black version - (optional: E - red-yellow version for safety switches)

Buttons and switches

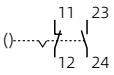
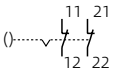
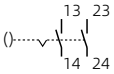
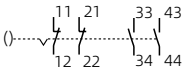
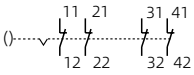
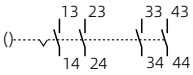
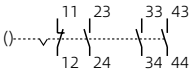
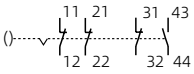
Mounting on the cover	Electrical diagram		Reference number
2-pole 		1NC/1NO	70SL-VB6201
		2NC	71SL-VB6201
		2NO	72SL-VB6201
4-pole 		2NC/2NO	750SL-VB6201
		4NC	751SL-VB6201
		4NO	752SL-VB6201
 Ø 39 mm		1NC/3NO	753SL-VB6201
		3NC/1NO	754SL-VB6201

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
B - black version - (optional: E - red-yellow version for safety switches)

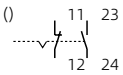
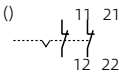
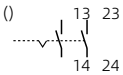
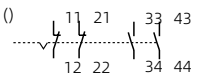
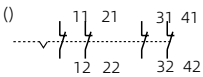
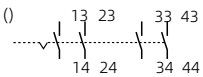
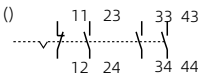
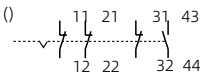
DIN rail mounting	Electrical diagram		Reference number
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		2NC	61SL-VB6201
		2NO	62SL-VB6201
4-pole 		2NC/2NO	650SL-VB6201
		4NC	651SL-VB6201
		4NO	652SL-VB6201
 Ø 39 mm		1NC/3NO	653SL-VB6201
		3NC/1NO	654SL-VB6201

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
B - black version - (optional: E - red-yellow version for safety switches)

Buttons and switches

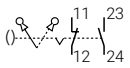
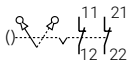
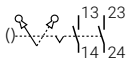
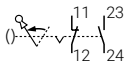
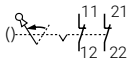
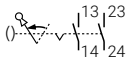
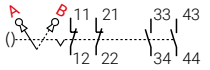
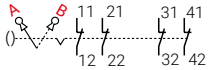
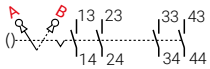
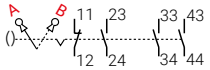
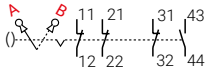
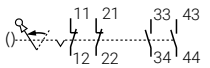
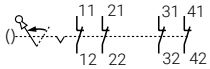
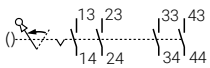
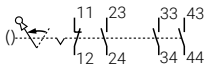
Mounting on the cover	Electrical diagram		Reference number
2-pole 		1NC/1NO	70SL-Y222B
		2NC	71SL-Y222B
		2NO	72SL-Y222B
4-pole 		O 2NC/2N	750SL-Y222B
		4NC	751SL-Y222B
		4NO	752SL-Y222B
 Ø 39 mm		1NC/3NO	753SL-Y222B
		3NC/1NO	754SL-Y222B

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to+60°C (optional: H - ambient temp. -55 to+60°C)
B - black-red version - (optional E - red-yellow version for safety switches)

DIN rail mounting	Electrical diagram		Reference number
2-pole 		1NC/1NO	60SL-Y22B
		2NC	61SL-Y22B
		2NO	62SL-Y22B
4-pole 		2NC/2NO	650SL-Y22B
		4NC	651SL-Y22B
		4NO	652SL-Y22B
 Ø 39 mm		1NC/3NO	653SL-Y22B
		3NC/1NO	654SL-Y22B

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
B - black-red version - (optional E - red-yellow version for safety switches)

Buttons and switches

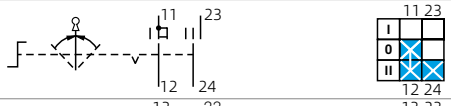
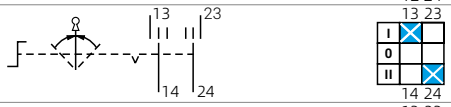
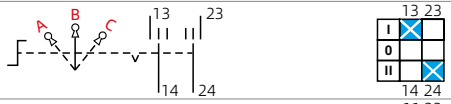
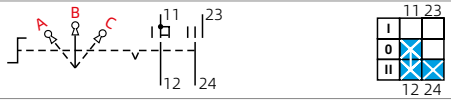
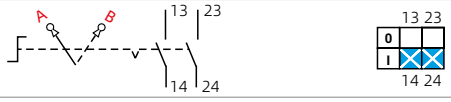
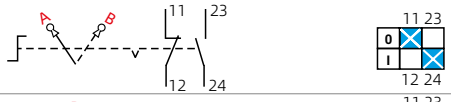
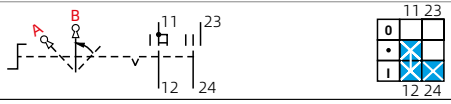
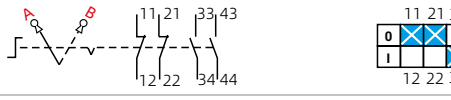
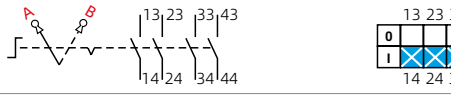
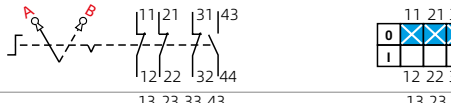
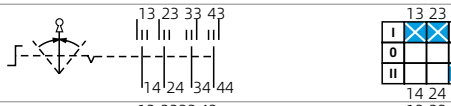
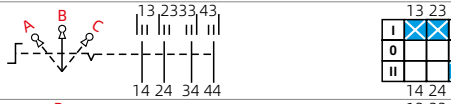
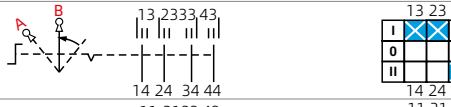
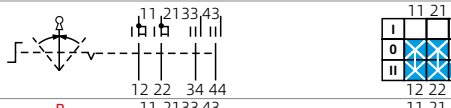
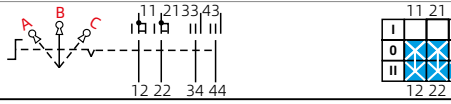
Mounting on the cover	Symbols	Electrical diagram		Reference number
 2-pole	0 I		1NC/1NO	70SL-Y62GS01
	0 I		2NC	71SL-Y62GS01
	0 I		2NO	72SL-Y62GS01
	0 •		1NC/1NO	70SL-Y32GS10
	0 •		2NC	71SL-Y32GS10
	0 •		2NO	72SL-Y32GS10
  4-pole	0 I		2NC/2NO	750SL-Y62GS01
	0 I		4NC	751SL-Y62GS01
	0 I		4NO	752SL-Y62GS01
	0 I		1NC/3NO	753SL-Y62GS01
Ø 39 mm	0 I		3NC/1NO	754SL-Y62GS01
	0 •		2NC/2NO	750SL-Y32GS10
	0 •		4NC	751SL-Y32GS10
	0 •		4NO	752SL-Y32GS10
	0 •		1NC/3NO	753SL-Y32GS10

LEGEND

- Key remains in position
- Key returns to initial position
- Key removable position
- A,B,C Key cannot be removed (optional)

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
S - standard version with possibility to remove the key in any position (optional A, B, C - lock the key in selected position(s))

Buttons and switches

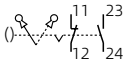
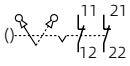
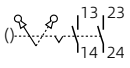
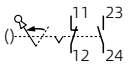
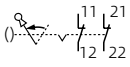
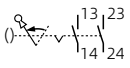
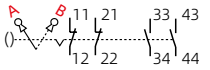
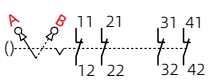
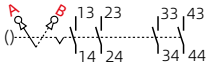
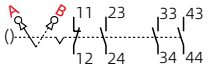
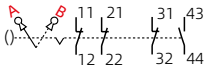
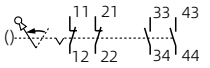
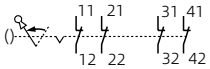
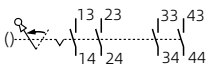
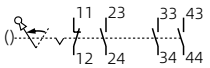
Mounting on the cover	Symbols	Electrical diagram	Reference number
 2-pole	I 0 II		70SL-Y42GS04
	I 0 II		72SL-Y42GS04
	I 0 II		72SL-Y52GS04
	I 0 II		70SL-Y52GS03
 4-pole	0 I		72SL-Y62GS01
	0 I		70SL-Y62GS02
	0 • I		70SL-Y82GS05
	0 I		750SL-Y62GS02
	0 I		752SL-Y62GS01
	0 I		754SL-Y62GS01
Ø 39 mm	I 0 II		752SL-Y42GS04
	I 0 II		752SL-Y52GS04
	I 0 II		752SL-Y82GS04
	I 0 II		750SL-Y42GS03
	I 0 II		750SL-Y52GS03

LEGEND

- Key remains in position
- Key returns to initial position
- Key removable position
- A,B,C Key cannot be removed (optional)

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
S - standard version with possibility to remove the key in any position (optional A, B, C - lock the key in selected position(s))

Buttons and switches

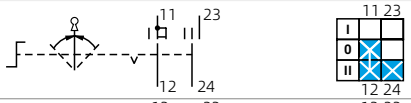
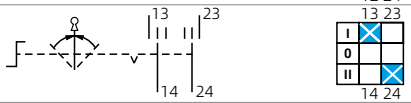
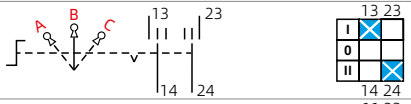
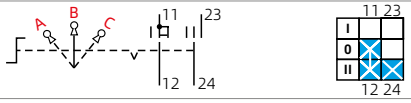
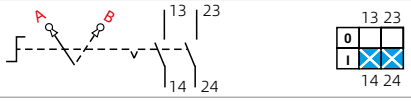
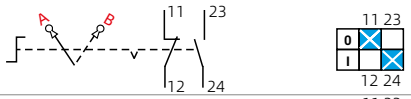
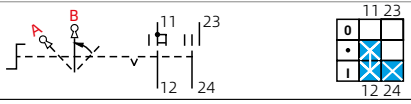
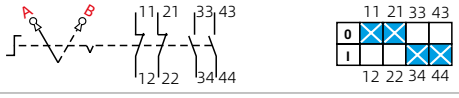
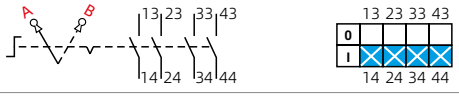
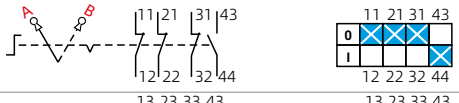
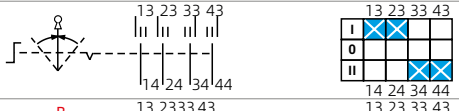
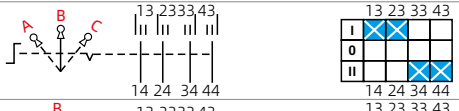
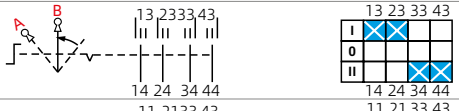
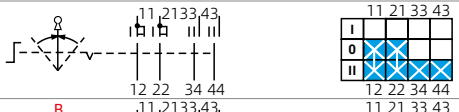
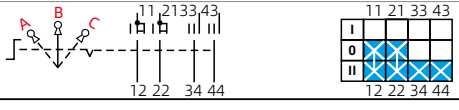
Mounting on the cover	Symbols	Electrical diagram		Reference number
 2-pole	0 I		1NC/1NO	60SL-Y62GS01
	0 I		2NC	61SL-Y62GS01
	0 I		2NO	62SL-Y62GS01
	0 •		1NC/1NO	60SL-Y32GS10
	0 •		2NC	61SL-Y32GS10
	0 •		2NO	62SL-Y32GS10
  4-pole	0 I		2NC/2NO	650SL-Y62GS01
	0 I		4NC	651SL-Y62GS01
	0 I		4NO	652SL-Y62GS01
	0 I		1NC/3NO	653SL-Y62GS01
Ø 39 mm	0 I		3NC/1NO	654SL-Y62GS01
	0 •		2NC/2NO	650SL-Y32GS10
	0 •		4NC	651SL-Y32GS10
	0 •		4NO	652SL-Y32GS10
	0 •		1NC/3NO	653SL-Y32GS10

LEGEND

- Key remains in position
- Key returns to initial position
- Key removable position
- A,B,C Key cannot be removed (optional)

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
S - standard version with possibility to remove the key in any position (optional A, B, C - lock the key in selected position(s))

Buttons and switches

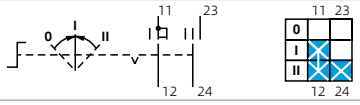
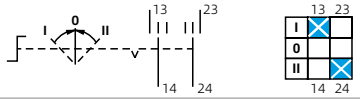
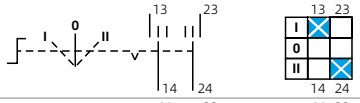
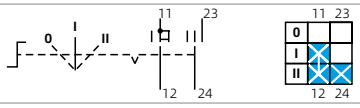
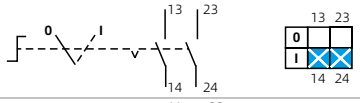
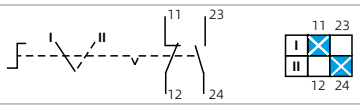
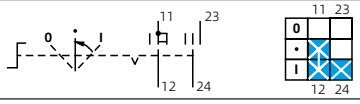
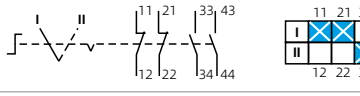
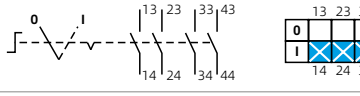
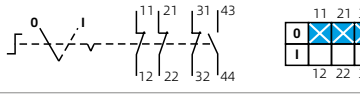
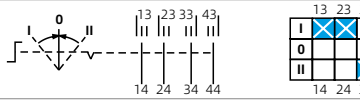
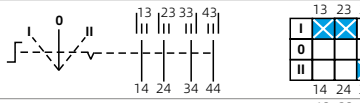
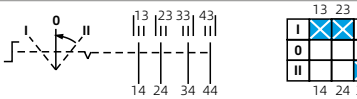
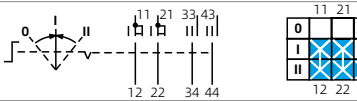
Mounting on the cover	Symbols	Electrical diagram	Reference number
 2-pole	I 0 II		60SL-Y42GS04
	I 0 II		62SL-Y42GS04
	I 0 II		62SL-Y52GS04
	I 0 II		60SL-Y52GS03
 4-pole	0 I		62SL-Y62GS01
	0 I		60SL-Y62GS02
	0 • I		60SL-Y82GS05
	0 I		650SL-Y62GS02
	0 I		652SL-Y62GS01
	0 I		654SL-Y62GS01
Ø 39 mm	I 0 II		652SL-Y42GS04
	I 0 II		652SL-Y52GS04
	I 0 II		652SL-Y82GS04
	I 0 II		650SL-Y42GS03
	I 0 II		650SL-Y52GS03

LEGEND

- Key remains in position
- Key returns to initial position
- Key removable position
- A,B,C Key cannot be removed (optional)

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)
S - standard version with possibility to remove the key in any position (optional A, B, C - lock the key in selected position(s))

Buttons and switches

Mounting on the cover	Symbols	Electrical diagram	Reference number
 2-pole	0 I II		70SL-KB4203
	I 0 II		72SL-KB4204
	I 0 II		72SL-KB5204
	0 I II		70SL-KB5203
 4-pole	0 I		72SL-KB6201
	I II		70SL-KB6202
	0 • I		70SL-KB8205
	I II		750SL-KB6202
	0 I		752SL-KB6201
	0 I		754SL-KB6201
	I 0 II		752SL-KB4204
	I 0 II		752SL-KB5204
Ø 39 mm	I 0 II		752SL-KB8204
	0 I II		750SL-KB4203
	0 I II		750SL-KB5203
	0 • I		750SL-KB8205

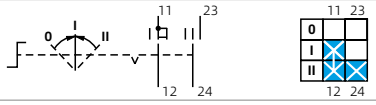
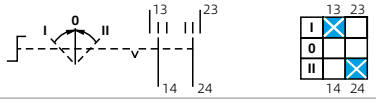
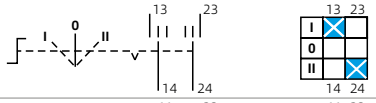
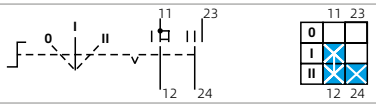
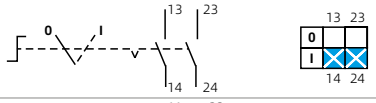
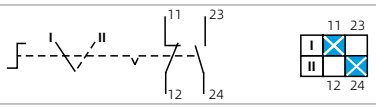
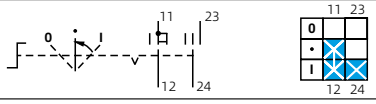
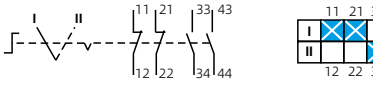
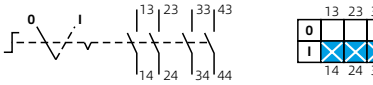
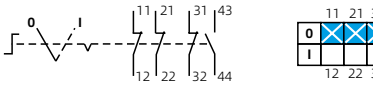
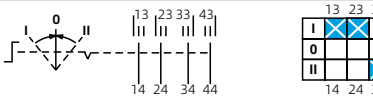
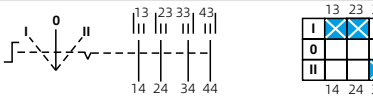
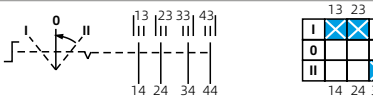
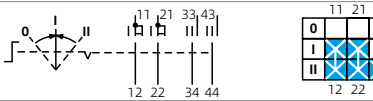
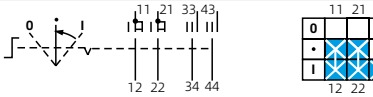
LEGEND

Key remains in position

Key returns to initial position

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to$^{+60°C}$(optional: H - ambient temp. -55 to +60°C)

Buttons and switches

Mounting on the cover	Symbols	Electrical diagram	Reference number
 2-pole	0 I II		60SL-KB4203
	I 0 II		62SL-KB4204
	I 0 II		62SL-KB5204
	0 I II		60SL-KB5203
 4-pole	0 I		62SL-KB6201
	I II		60SL-KB6202
	0 • I		60SL-KB8205
	I II		650SL-KB6202
	0 I		652SL-KB6201
	0 I		654SL-KB6201
	I 0 II		652SL-KB4204
	I 0 II		652SL-KB5204
Ø 39 mm	I 0 II		652SL-KB8204
	0 I II		650SL-KB4203
	0 I II		650SL-KB5203
	0 • I		650SL-KB8205

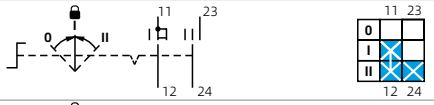
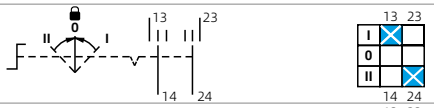
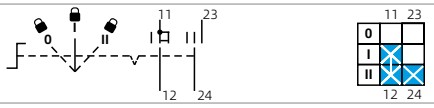
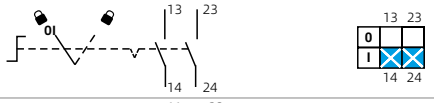
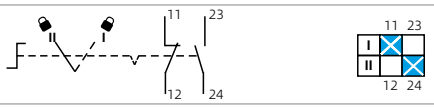
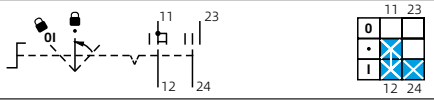
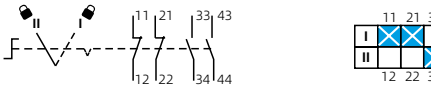
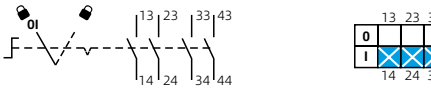
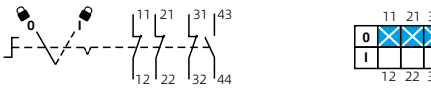
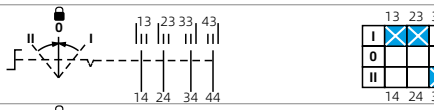
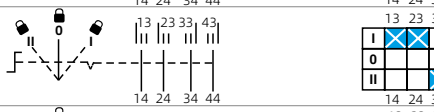
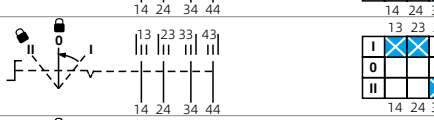
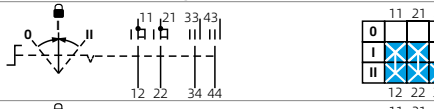
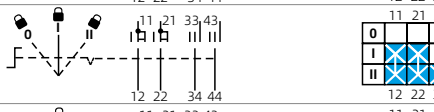
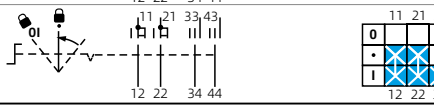
LEGEND

Key remains in position

Key returns to initial position

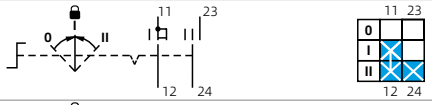
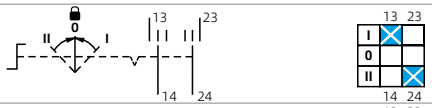
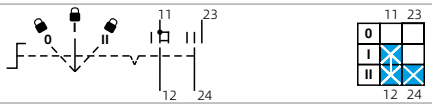
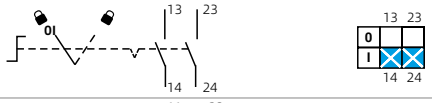
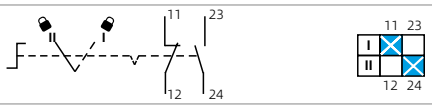
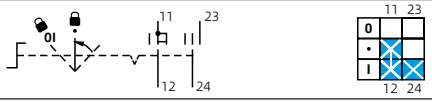
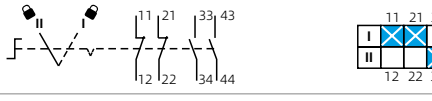
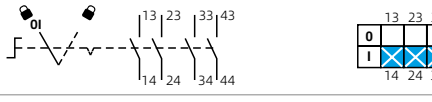
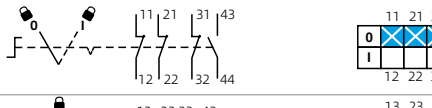
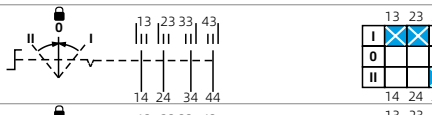
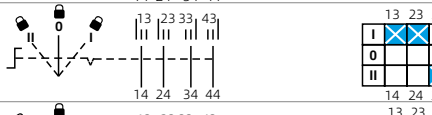
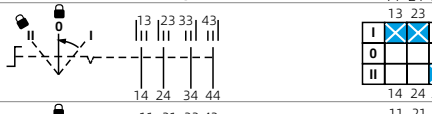
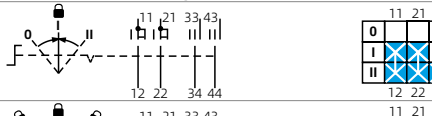
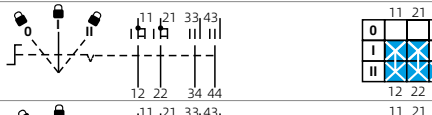
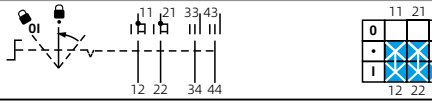
S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Buttons and switches

Mounting on the cover	Symbols	Electrical diagram	Reference number
 2-pole	0 I II		70SL-SB4203
	I 0 II		72SL-SB4204
	I 0 II		72SL-S5B204
	0 I II		70SL-SB5203
 4-pole	0 I		72SL-SB6201
	I II		70SL-SB6202
	0 • I		70SL-SB8205
	I II		750SL-SB6202
	0 I		752SL-SB6201
	0 I		754SL-SB6201
	I 0 II		752SL-SB4204
	I 0 II		752SL-SB5204
Ø 61,5 mm	I 0 II		752SL-SB8204
LEGEND	0 I II		750SL-SB4203
Key remains in position	0 I II		750SL-SB5203
Key returns to initial position	0 • I		750SL-SB8205
Padlock hole			

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Buttons and switches

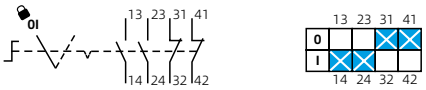
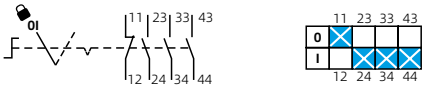
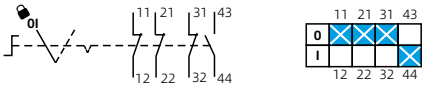
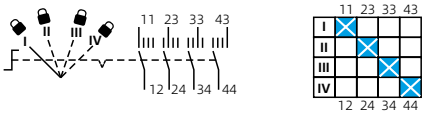
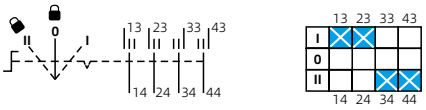
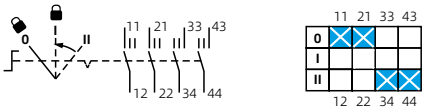
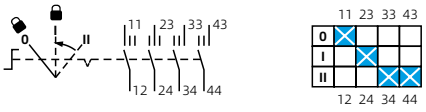
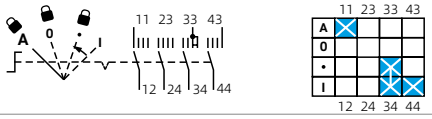
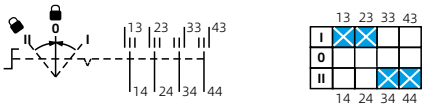
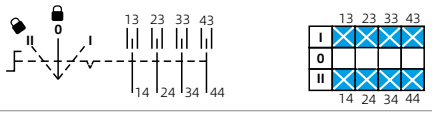
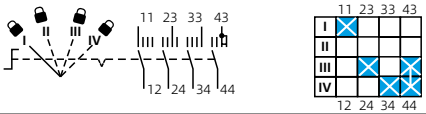
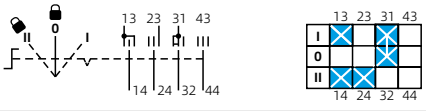
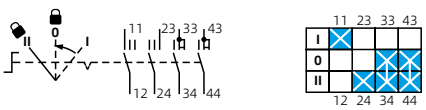
Mounting on the cover	Symbols	Electrical diagram	Reference number
 2-pole	0 I II		60SL-SB4203
	I 0 II		62SL-SB4204
	I 0 II		62SL-SB5204
	0 I II		60SL-SB5203
 4-pole	0 I		62SL-SB6201
	I II		60SL-SB6202
	0 • I		60SL-SB8205
	I II		650SL-SB6202
	0 I		652SL-SB6201
	0 I		654SL-SB6201
	I 0 II		652SL-SB4204
	I 0 II		652SL-SB5204
Ø 61,5 mm	I 0 II		652SL-SB8204
	0 I II		650SL-SB4203
	0 I II		650SL-SB5203
	0 • I		650SL-SB8205

LEGEND

- Key returns to initial position
- Key removable position
- Padlock hole

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Buttons and switches

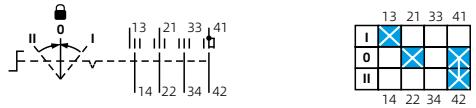
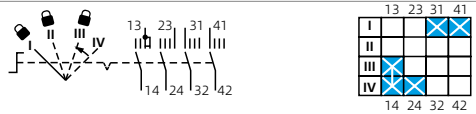
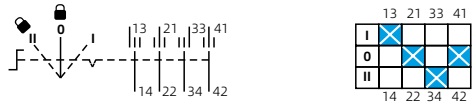
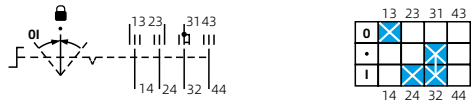
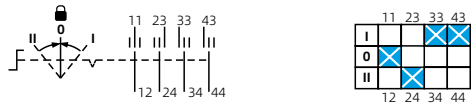
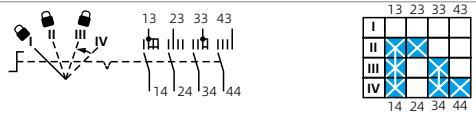
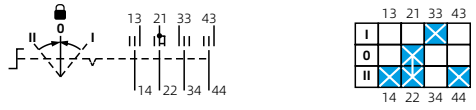
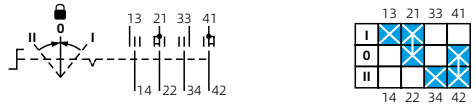
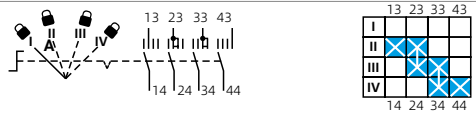
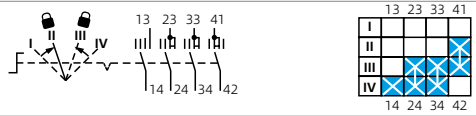
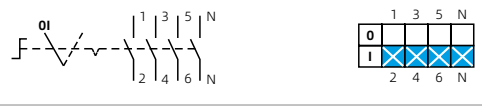
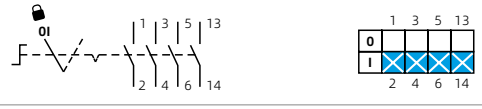
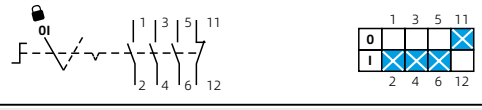
Mounting on the cover	Symbols	Electrical diagram	Reference number
Control switch  Ø 61,5 mm	0 I		H601SL-HB3201
	0 I		H602SL-HB3201
	0 I		H603SL-HB3201
	0 I		H604SL-HB3201
	I II III IV		H605SL-HB4204
	I 0 II		H606SL-HB3203
	0 I II		H607SL-HB3202
	0 I II		H608SL-HB3202
	A 0 • I		H609SL-HB4205
	I 0 II		H610SL-HB3203
	I 0 II		H611SL-HB3203
	I II III IV		H612SL-HB4204
	I 0 II		H613SL-HB3203
	I 0 II		H614SL-HB3203

LEGEND

- Key remains in position
- Key returns to initial position
- Padlock hole

S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Buttons and switches

Mounting on the cover	Symbols	Electrical diagram	Reference number
Control switch	I 0 II		H618SL-HB3203
	I II III IV		H626SL-HB4204
	I 0 II		H631SL-HB3203
	0 • I		H637SL-HB3205
	I 0 II		H650SL-HB3203
	I II III IV		H646SL-HB4204
	I 0 II		H656SL-HB3203
	I 0 II		H659SL-HB3203
	I II III IV		H660SL-HB4204
Ø 61,5 mm	I II III IV		H668SL-HB4204
	0 I		H697SL-HB3201
	0 I		H698SL-HB3201
Ø 61,5 mm	0 I		H699SL-HB3201

Key remains in position

Key returns to initial position

Padlock hole

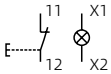
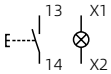
S - silver plated contacts (optional: G - gold plated contacts)
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Buttons and switches

DIN rail mounting	Description	Electrical diagram		Reference number
 Ø 40 mm	Open circuit and short circuit detection function	1NC/1NO	10kΩ/1kΩ	C60GL21-P6E
			10kΩ/1.8kΩ	C60GL22-P6E
			22.1kΩ/681Ω	C60GL23-P6E
		2NC	10kΩ/1kΩ	C61GL21-P6E
			10kΩ/1.8kΩ	C61GL22-P6E
		2NO	10kΩ/1kΩ	C62GL21-P6E
 Ø 39 mm	Open circuit and short circuit detection function	1NC/1NO	10kΩ/1kΩ	C60GL21-P100
			10kΩ/1.8kΩ	C60GL22-P100
			22.1kΩ/681Ω	C60GL23-P100
		2NC	10kΩ/1kΩ	C61GL21-P100
			10kΩ/1.8kΩ	C61GL22-P100
		2NO	10kΩ/1kΩ	C62GL21-P100
 39X70 mm	Open circuit and short circuit detection function	1NC/1NO	10kΩ/1kΩ	C60GL21-P200
			10kΩ/1.8kΩ	C60GL22-P200
			22.1kΩ/681Ω	C60GL23-P200
		2NC	10kΩ/1kΩ	C61GL21-P200
			10kΩ/1.8kΩ	C61GL22-P200
		2NO	10kΩ/1kΩ	C62GL21-P200

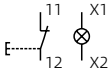
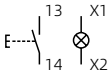
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

Illuminated buttons

Mounting on the cover	Electrical diagram	Protection	Power supply lamps	Reference number
 Ex ia IIC Ga 	1NC 	Ex ia IIC Ga	10V - 28V AC/DC	7300H-P☐
		Ex db eb IIC Gb	10V - 28V AC/DC	7303L-P☐
			20V - 250V AC/DC	7301L-P☐
			100V - 277V AC/DC	7304L-P☐
 Ex db eb IIC Gb  Ø 39 mm	1NO 	Ex ia IIC Ga	10V - 28V AC/DC	7400H-P☐
		Ex db eb IIC Gb	10V - 28V AC/DC	7403L-P☐
			20V - 250V AC/DC	7401L-P☐
			100V - 277V AC/DC	7404L-P☐

L - ambient temp. -40 to +60°C
(Optional: H - ambient temp. -55 to +60°C, possibility to change only from L to H)

- R - red
- G - green
- Y - yellow
- B - blue
- W - white

Mounting on the cover	Electrical diagram	Protection	Power supply lamps	Reference number
 Ex ia IIC Ga 	1NC 	Ex ia IIC Ga	10V - 28V AC/DC	6300H-P☐
		Ex db eb IIC Gb	10V - 28V AC/DC	630L-P☐
			20V - 250V AC/DC	6301L-P☐
			100V - 277V AC/DC	6304L-P☐
 Ex db eb IIC Gb  Ø 39 mm	1NO 	Ex ia IIC Ga	10V - 28V AC/DC	6400H-P☐
		Ex db eb IIC Gb	10V - 28V AC/DC	6403L-P☐
			20V - 250V AC/DC	6401L-P☐
			100V - 277V AC/DC	6404L-P☐

L - ambient temp. -40 to +60°C
(Optional: H - ambient temp. -55 to +60°C, possibility to change only from L to H)

- R - red
- G - green
- Y - yellow
- B - blue
- W - white

Indicator lamps

Mounting on the cover	Color lamps	Power supply lamps	Protection	Reference number
	R - red G - green Y - yellow B - blue W - white	10V - 28V AC/DC	Ex ia IIC Ga	700H-LR 700H-LG 700H-LY 700H-LB 700H-LW
	R - red G - green Y - yellow B - blue W - white	10V - 28V AC/DC	Ex d e IIC Gb	703L-LR 703L-LG 703L-LY 703L-LB 703L-LW
	R - red G - green Y - yellow B - blue W - white	20V - 250V AC/DC	Ex d e IIC Gb	701L-LR 701L-LG 701L-LY 701L-LB 701L-LW
Ø 39 mm	R - red G - green Y - yellow B - blue W - white	100V - 277V AC/DC	Ex d e IIC Gb	704L-LR 704L-LG 704L-LY 704L-LB 704L-LW

L - ambient temperature -40 to +60°C
(Optional: H - ambient temp. -55 to +60°C, possibility to change only from L to H)

Mounting on the cover	Color lamps	Power supply lamps	Protection	Reference number
	R - red G - green Y - yellow B - blue W - white	10V - 28V AC/DC	Ex ia IIC Ga	600H-LR 600H-LG 600H-LY 600H-LB 600H-LW
	R - red G - green Y - yellow B - blue W - white	10V - 28V AC/DC	Ex d e IIC Gb	603L-LR 603L-LG 603L-LY 603L-LB 603L-LW
	R - red G - green Y - yellow B - blue W - white	20V - 250V AC/DC	Ex d e IIC Gb	601L-LR 601L-LG 601L-LY 601L-LB 601L-LW
Ø 39 mm	R - red G - green Y - yellow B - blue W - white	100V - 277V AC/DC	Ex d e IIC Gb	604L-LR 604L-LG 604L-LY 604L-LB 604L-LW

L - ambient temperature -40 to +60°C
(Optional: H - ambient temp. -55 to +60°C, possibility to change only from L to H)

Potentiometers

Mounting on the cover	Resistance	Reference number
 Ø 39 mm	100Ω	A701/1L-DW2
	200Ω	A702/1L-DW2
	500Ω	A703/1L-DW2
	1000Ω	A704/1L-DW2
	2000Ω	A705/1L-DW2
	5000Ω	A706/1L-DW2
	10000Ω	A707/1L-DW2
	20000Ω	A708/1L-DW2
	50000Ω	A709/1L-DW2
	100000Ω	A710/1L-DW2
	200000Ω	A711/1L-DW2
	500000Ω	A712/1L-DW2
	1000000Ω	A713/1L-DW2
	2000000Ω	A714/1L-DW2

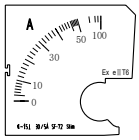
L - ambient temperature -40 to +60°C
(Optional: H - ambient temp. -55 to +60°C, possibility to change only from L to H)

Mounting on the cover	Resistance	Reference number
 Ø 39 mm	100Ω	A601/1L-DW2
	200Ω	A602/1L-DW2
	500Ω	A603/1L-DW2
	1000Ω	A604/1L-DW2
	2000Ω	A605/1L-DW2
	5000Ω	A606/1L-DW2
	10000Ω	A607/1L-DW2
	20000Ω	A608/1L-DW2
	50000Ω	A609/1L-DW2
	100000Ω	A610/1L-DW2
	200000Ω	A611/1L-DW2
	500000Ω	A612/1L-DW2
	1000000Ω	A613/1L-DW2
	2000000Ω	A614/1L-DW2

L - ambient temperature -40 to +60°C
(Optional: H - ambient temp. -55 to +60°C, possibility to change only from L to H)

Voltmeters and ammeters

Accessories

Counterframe	Counterframe with label	Scales
 M2	 M1	

- 0...1
- 2.5
- 5
- 15
- 25
- 40
- 50
- 60
- 75
- 100
- 150
- 200
- 250
- 300
- 400
- 500
- 600

Voltmeters	Scope	Protection	Reference number
 70x70 mm	0-25V	Ex emb II C Gb	7V25-M1
	0-40V		7V40-M1
	0-150V		7V150-M1
	0-250V		7V250-M1
	0-500V		7V500-M1

7 - cover mounting (optional: 6 - DIN rail mounting)
M1 - counterframe without label (optional: M2 - counterframe with label)

Milliammeters	Scope	Protection	Reference number
 70x70 mm	0-20/40mA	Ex emb II C Gb	7mA11[ ]/-M1
	4-20//40mA		7mA12[ ]/-M1

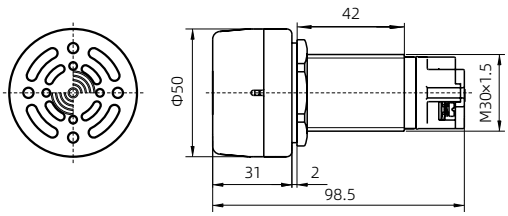
7 - cover mounting (optional: 6 - DIN rail mounting)
SCALE: 0...1 / 2.5 / 5 / 15 / 25 / 40 / 50 / 60 / 75/ 100 / 150 / 200 / 250 / 300 / 400 / 500 / 600
M1 - counterframe without label (optional: M2 - counterframe with label)

	Direct measurement	0-1 / 2A	7A1-M1
		0-5 / 10A	7A5-M1
		0-10 / 20A	7A10-M1
	For current transformer	0-1 / 2A	7A01 / 12-M1
		0-2.5 / 5A	7A2.5 / 12-M1
		0-5 / 10A	7A5 / 12-M1
		0-15 / 30A	7A15 / 12-M1
		0-25 / 50A	7A25 / 12-M1
		0-40 / 80A	7A40 / 12-M1
		0-50 / 100A	7A50 / 12-M1
		0-60 / 120A	7A60 / 12-M1
		0-75 / 150A	7A75 / 12-M1
		0-100 / 200A	7A100 / 12-M1
		0-150 / 300A	7A150 / 12-M1
		0-200 / 400A	7A200 / 12-M1
		0-250 / 500A	7A250 / 12-M1
		0-300 / 600A	7A300 / 12-M1
		0-400 / 800A	7A400 / 12-M1
		0-500 / 1000A	7A500 / 12-M1
70x70 mm		0-600 / 1200A	7A600 / 12-M1

7 - cover mounting (optional: 6 - DIN rail mounting)
1 - current on the secondary side of the transformer 1A (optional: 5 - current on the secondary side of the transformer 5A)
M1 - counterframe without label (optional: M2 - counterframe with label)

Warning devices (acoustic / acoustic-optical)

Mounting on the cover	Sound	Light	Rated voltage	Reference
	Yes, 60dB (at a distance of 30cm)	Yes, flashing light	10V - 28V AC/DC	2-R70
			20V - 250V AC/DC	2-R71
	Yes, 60dB (at a distance of 30cm)	Yes, 60dB (at a distance of 30cm)	10V - 28V AC/DC	2-B70
			20V - 250V AC/DC	2-B71



Ambient temperature	-40°C ≤ Ta ≤ +45°C
Degree of protection	IP66
Rated voltage	AC/DC10-28V, AC/DC20-250V
Rated frequency	50/60Hz
Sound level	60dB (at a distance of 30cm)
Connection terminals	2×2.5mm²

HCS1P series for zones 1/2 and 21/22

Predefined control panels for hazardous areas



Design features

- **The robust, thick enclosure walls (4.5–9 mm)** ensure high structural rigidity and allow the use of threads with a large number of turns, further enhancing the device's reliability.
- **Silicone cover gasket**, which effectively protects the interior of the case from the ingress of moisture and dirt.
- **Cover screws**, made of AISI 316L stainless steel, guarantee durability and resistance to harmful external factors.
- **Internal mounting screws**, made of corrosion-resistant materials, significantly increase the durability and service life of the entire structure.

In this section you will find

Control panels with two elements


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Control panels with three elements

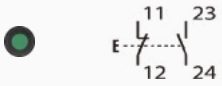
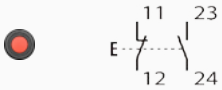

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Control panel with two elements

Predefined products

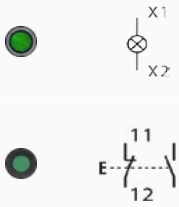
Photo	Electrical diagram	Description	Cable glands	Order No
		green button with self-return, 1NO + 1NC	1 x M25	HCS1P 122209 S20001
		red button with self-return, 1NO + 1NC		

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ex II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 220 x 90 mm
Product weight	~0,9 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Maximum voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Control panel with two elements

Predefined products

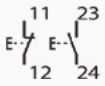
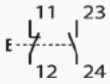
Photo	Electrical diagram	Description	Cable glands	Order No
		green indicator light green button with self-return, 1NO + 1NC	1 x M25	HCS1P 122209 S20002

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ex II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 220 x 90 mm
Product weight	~0,9 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Maximum voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Control panel with two elements

Predefined products

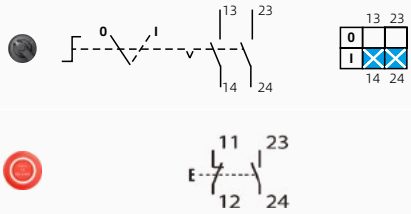
Photo	Electrical diagram	Description	Cable glands	Order No
	 	double button (green/red) with self-return, 1NO + 1NC	1 x M25	HCS1P 122209 S20003
	 	mushroom button (emergency stop), pull-to-release, 1NO + 1NC		

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ex II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 220 x 90 mm
Product weight	~0,9 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Maximum voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Control panel with two elements

Predefined products

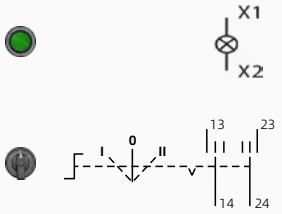
Photo	Electrical diagram	Description	Cable glands	Order No
		control switch, 2 stable positions, 2NO, description: 0 - I	1 x M25	HCS1P 122209 S20004
		mushroom button (emergency stop), pull-to-release, 1NO + 1NC		

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ex II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 220 x 90 mm
Product weight	~0,9 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Maximum voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Control panel with two elements

Predefined products

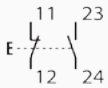
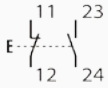
Photo	Electrical diagram	Description	Cable glands	Order No
		green indicator light mushroom button (emergency stop), pull-to-release, 1NO + 1NC	1 x M25	HCS1P 122209 S20005

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ex II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 220 x 90 mm
Product weight	~0,9 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Maximum voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Control panel with three elements

Predefined products

Photo	Electrical diagram	Description	Cable glands	Order No
		green indicator light		
		green button with self-return, 1NO + 1NC	1 x M25	HCS1P 122209 S30001
		red button with self-return, 1NO + 1NC		

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to 2014/34/EU	Ⓔx II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ⓔx II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 220 x 90 mm
Product weight	~1,1 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Maximum voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Control panel with three elements

Predefined products

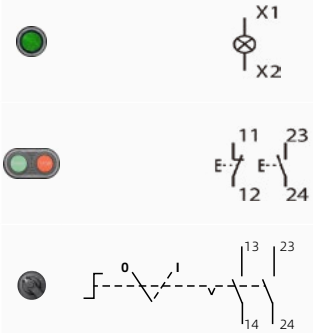
Photo	Electrical diagram	Description	Cable glands	Order No
		green indicator light double button (green/red) with self-return, 1NO + 1NC mushroom button (emergency stop), pull-to-release, 1NO + 1NC	1 x M25	HCS1P 122209 S30002

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to 2014/34/EU	Ⓔx II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ⓔx II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 220 x 90 mm
Product weight	~1,1 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Maximum voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Control panel with three elements

Predefined products

Photo	Electrical diagram	Description	Cable glands	Order No
		green indicator light double button (green/red) with self-return, 1NO + 1NC mushroom button (emergency stop), pull-to-release, 1NO + 1NC	1 x M25	HCS1P 122209 S30003

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to 2014/34/EU	Ⓔx II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ⓔx II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 220 x 90 mm
Product weight	~1,1 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Maximum voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

HCS1P Series for Zones 1/2 and 21/22

Switches / selector switches for hazardous areas



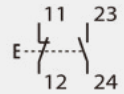
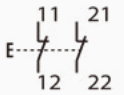
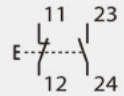
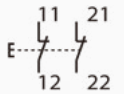
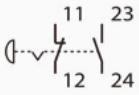
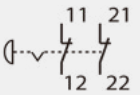
Design features

- **The robust, thick enclosure walls (4.5–9 mm)** ensure high structural rigidity and allow the use of threads with a large number of turns, further enhancing the device's reliability.
- **Silicone cover gasket**, which effectively protects the interior of the case from the ingress of moisture and dirt.
- **Cover screws**, made of AISI 316L stainless steel, guarantee durability and resistance to harmful external factors.
- **Internal mounting screws**, made of corrosion-resistant materials, significantly increase the durability and service life of the entire structure.

In this section you will find	Description	70-92
Emergency switches	Contacts: 1NO, 1NC, 2NC Type: mushroom head Others on request	71
Momentary switches	Contacts: 1NO, 1NC Type: mushroom head Others on request	72
Illuminated momentary switches	Contacts: 2NO Type: switch with knob / key Others on request	73
Control switches	Contacts: 1NO Type: switch with knob / key Others on request	74, 78-89
Main switches	Contacts: 3-6 + PE + N + NO + NC + 2NC Type: switch with large knob (padlock) Current: up to 80A	75-89
Isolation switches	Contacts: 3-6 + PE + N + NO + NC + 2NC Type: switch with large knob (padlock) Current: up to 80A	75-77
Motor switches	Contacts: 3 + NO, NC, PE, D1, D2 Type: switch with large knob (padlock) Overload trip: 0.1-25A	90-92

Emergency switches

Predefined products

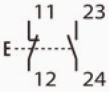
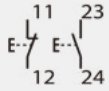
Photo	Electrical diagram		Description	Cable glands	Order No
Pull to release					
		1NO + 1NC	1 x mushroom button	1 x M25	HCS1P 121209 S10001
		2NC	1 x mushroom button	1 x M25	HCS1P 121209 S10002
		1NO + 1NC	1 x mushroom button Pull to release	1 x M25	HCS1P 121209 S10003
		2NC	1 x mushroom button Pull to release	1 x M25	HCS1P 121209 S10004
Twist to release					
		1NO + 1NC	1 x mushroom button Twist to release	1 x M25	HCS1P 121209 S10011
		2NC	1 x mushroom button Twist to release	1 x M25	HCS1P 121209 S10012

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to ATEX (2014/34/EU)	Ex II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ex II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 120 x 90 mm
Product weight	~0,4 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Max voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Momentary switches

Predefined products

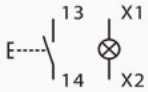
Photo	Electrical diagram		Description	Cable glanads	Order No
		1NO + 1NC	1 x monostable button colour: green	1 x M25	HCS1P 121209 S10051
		1NO + 1NC	1 x monostable double button colours: red, green	1 x M25	HCS1P 121209 S10101

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to ATEX (2014/34/EU)	Ⓔx II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ⓔx II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 120 x 90 mm
Product weight	~0,4 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Max voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Illuminated momentary switches

Predefined products

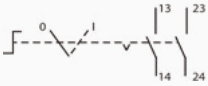
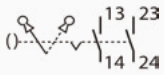
Photo	Electrical diagram		Description	Cable glands	Order No
		1NO	1 x illuminated push button colour: ● red	1 x M25	HCS1P 121209 S10301
		1NO	1 x illuminated push button colour: ● green	1 x M25	HCS1P 121209 S10302
		1NO	1 x illuminated push button colour: ● yellow	1 x M25	HCS1P 121209 S10303
		1NO	1 x illuminated push button colour: ● blue	1 x M25	HCS1P 121209 S10304
		1NO	1 x illuminated button, 1NO colour: ○ white	1 x M25	HCS1P 121209 S10305

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to ATEX (2014/34/EU)	Ex II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ex II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 120 x 90 mm
Product weight	~0,4 kg
Mechanical life	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Max voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection	16A / 500V
Terminals	2 x 2,5 mm^2

Control switches

Predefined products

Photo	Electrical diagram		Description	Cable glands	Order No
	 2NO 		1 x control switch 2 stable positions description: 0 - I	1 x M25	HCS1P 121209 S10151
	 2NO 		1 x control switch 3 stable positions description: I - 0 - II	1 x M25	HCS1P 121209 S10171
	 2NO		1 x key-operated switch 2 positions: stable	1 x M25	HCS1P 121209 S10201

Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certification	IECEx FIDI 22.0008X
Marking according to ATEX (2014/34/EU)	Ex II 2 G Ex db eb IIC/IIB T6....T4 Gb | Ex II 2 D Ex tb IIIC T85°C
Marking according to IECEx	Ex db eb IIC/IIB T6...T4 Gb | Ex tb IIIC T85°C
Dimensions (L x W x H)	120 x 120 x 90 mm
Product weight	~0,4 kg
Mechanical Life:	1 million cycles
Housing material	glass fiber reinforced polyester (GRP)
Permissible ambient temperature	-20°C to 40°C (optional -50°C to 60°C)
Degree of protection according to EN 60529	IP66
Max voltage	400 V AC
Rated current	16 A
Protection class	I
Short-circuit protection:	16A / 500V
Terminals	2 x 2,5 mm^2

Main, isolation and safety switches

switch positions: 2 | **contacts:** 3-6 + PE + N | **auxiliary contacts:** NO + NC + 2NC | **current:** 20-80A







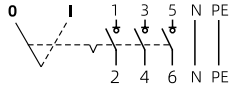
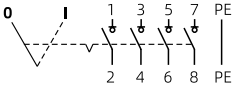
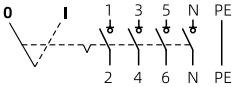
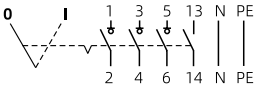
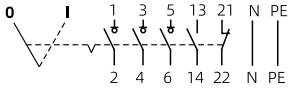
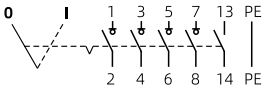
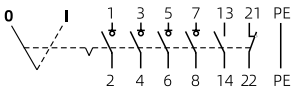
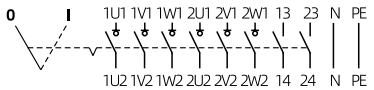
Certified switch for versatile applications, featuring a large ergonomic Ø105 mm knob (120 mm with extended grip).



Parameters

Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
Marking according to ATEX	Ⓔx II 2 G Ex db eb IIC T5/T6 Gb | Ⓔx II 2 D Ex tb IIIC T85°C Db
Marking according to IECEx	Ex db eb IIC T5/T6 Gb | Ex tb IIIC T85°C Db
Knob size	Ø 105 mm (120 mm including grip)
Permissible ambient temperature	-40°C to +55°C
Degree of protection	IP66
Rated voltage	230 to 690V
Category of use	AC-3, AC-23
Rated current	20A / 25A / 35A / 40A / 63A / 75A / 80A
Short circuit protection (fuse ratings)	20A/25A: 20kA, 500V/35A 30A/40A: 20kA, 500V/63A 63A/75A/80A: 50kA, 500V/160A Fuse type: gG (IEC/EN 60269-1)
Rated insulation voltage (U_i)	800V
Rated impulse withstand voltage (U_{imp})	6kV
Rated short-time withstand current (I_{cw})	3kA for 20A, 25A, 35A, 40A 10kA for 63A, 75A, 80A
Rated short-circuit making capacity (I_{cm})	4kA (for 20A, 25A, 35A, 40) 17kA (for 63A, 75A, 80A)
Cross section of wires	20A/25A: 2×1.5 to 4mm² 35A/40A: 2×10mm² 63A/75A/80A: 2×16 to 25mm²
Contact material	silver alloy

Specifications

Switch modules	Electrical diagram	Rated current	Weight [kg]	Reference no
 20A / 25A	3P 	20 / 25	0,34	25A/3P-☐
		35 / 40	1,05	40A/3P-☐
		63 / 75 / 80	3,57	80A/3P-☐
	4P 	20 / 25	0,37	25A/4P-☐
		35 / 40	1,12	40A/4P-☐
		63 / 75 / 80	3,91	80A/4P-☐
	3P+N 	20 / 25	0,37	25A/3P+N-☐
		35 / 40	1,09	40A/3P+N-☐
		63 / 75 / 80	3,92	80A/3P+N-☐
 35A / 40A	3P-4 	20 / 25	0,37	25A/3P-4-☐
		35 / 40	1,14	40A/3P-4-☐
		63 / 75 / 80	3,66	80A/3P-4-☐
	3P-0 	20 / 25	0,44	25A/3P-0-☐
		35 / 40	1,16	40A/3P-0-☐
		63 / 75 / 80	3,69	80A/3P-0-☐
 63A / 75A / 80A	4P-4 	20 / 25	0,44	25A/4P-4-☐
		35 / 40	0,96	40A/4P-4-☐
		63 / 75 / 80	3,56	80A/4P-4-☐
	4P-0 	20 / 25	0,47	25A/4P-0-☐
		35 / 40	1,26	40A/4P-0-☐
		63 / 75 / 80	4,05	80A/4P-0-☐
	6P-0 	20 / 25	0,57	25A/6P-0-☐
		35 / 40	1,69	40A/6P-0-☐
		63 / 75 / 80	5,94	0A/6P-0-☐
	6P-2 	20 / 25	0,57	25A/6P-2-☐
		35 / 40	1,69	40A/6P-2-☐
		63 / 75 / 80	5,94	80A/6P-2-☐

 **3DE1**

 **3DE2**

 **3DB1**

 **3DB2**

For isolation switches

For safety switches

Main and isolation switches

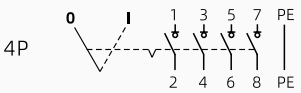
Predefined products

Current	Photo	ATEX / IECEx	Dimensions	Cable glands	Order No
20A		Ex II 2 G Ex db eb IIC T6 Gb [zone 1, 2] Ex II 2 D Ex tb IIIC T85°C Db [zone 21, 22]	160 x 160 x 90	2 x M32	HCS1P 161609 S01611
25A		Ex II 2 G Ex db eb IIC T5 Gb [zone 1, 2] Ex II 2 D Ex tb IIIC T85°C Db [zone 21, 22]	160 x 160 x 90	2 x M32	HCS1P 161609 S01631
35A		Ex II 2 G Ex db eb IIC T6 Gb [zone 1, 2] Ex II 2 D Ex tb IIIC T85°C Db [zone 21, 22]	250 x 260 x 160	2 x M40	HCS1P 252616 S01711
40A		Ex II 2 G Ex db eb IIC T5 Gb [zone 1, 2] Ex II 2 D Ex tb IIIC T85°C Db [zone 21, 22]	250 x 260 x 160	2 x M50	HCS1P 252616 S01731
63A		Ex II 2 G Ex db eb IIC T6 Gb [zone 1, 2] Ex II 2 D Ex tb IIIC T85°C Db [zone 21, 22]	250 x 400 x 160	2 x M50	HCS1P 254016 S01811
80A		Ex II 2 G Ex db eb IIC T6 Gb [zone 1, 2] Ex II 2 D Ex tb IIIC T85°C Db [zone 21, 22]	250 x 400 x 160	2 x M50	HCS1P 254016 S01871

Parameters

Rated voltage	up to 400V
Short-circuit protection (fuse ratings)	20A: 20kA, 500V/35A 25A: 20kA, 500V/35A 35A: 20kA, 500V/63A 40A: 20kA, 500V/63A 63A: 50kA, 500V/160A 75A: 50kA, 500V/160A Fuse type: gG (IEC/EN 60269-1)
Rated insulation voltage ($_{Ui}$)	800V
Rated impulse withstand voltage (U_{imp})	6kV
Rated short-time withstand current ($_{Icw}$)	3kA (for 20A, 25A, 35A, 40A) 10kA (for 63A, 75A)
Rated short-circuit making capacity ($_{Icm}$)	4kA (for 20A, 25A, 35A, 40) 17kA (for 63A, 75A)
Cross section of wires	20A/25A: 2×1.5 to 4mm² 35A/40A: 2×10mm² 63A/75A: 2×16 to 25mm²

Technical specifications

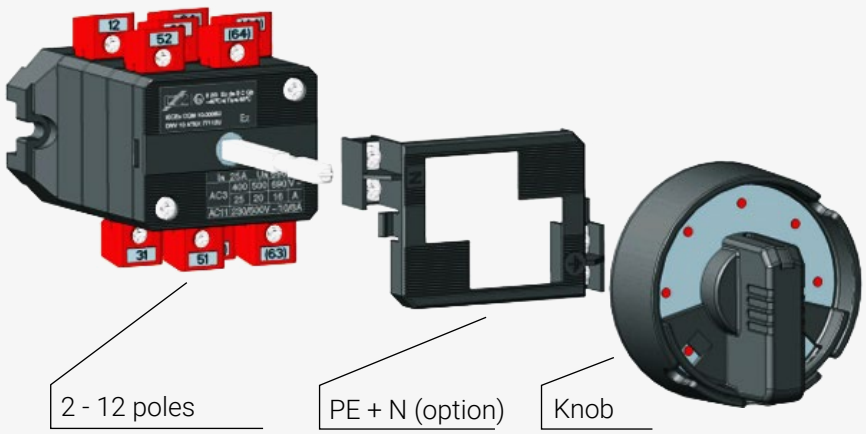
Permissible ambient temperature	-40°C to 40°C
Operating temperature	-40°C to +95°C
Degree of protection	IP66
Contact material	silver alloy
Fast action	yes, thanks to the spring release mechanism
Fire resistance	good
Electrical diagram	

On request (see previous page):

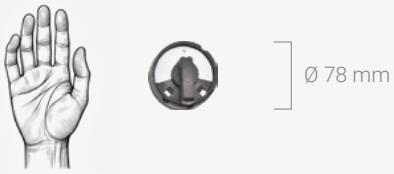
3P	3P - 0	6P - 0
3P + N	4P - 4	6P - 2
3P - 4	4P - 0	

Control and main switches

switch positions: 2-12 | **contacts:** 2-12 + PE + N | **current:** 25A

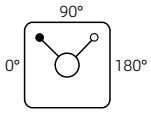
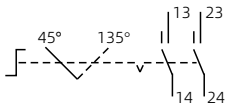
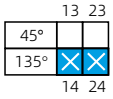
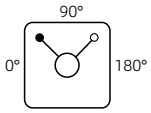
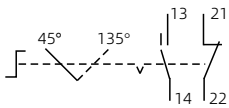
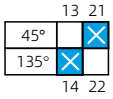
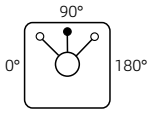
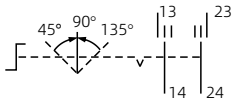
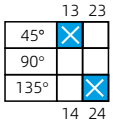
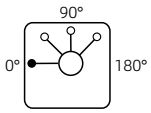
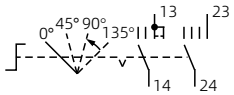
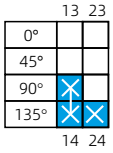
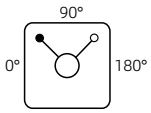
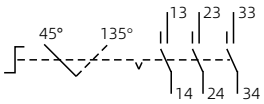
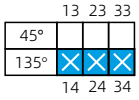
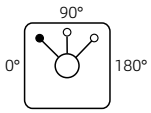
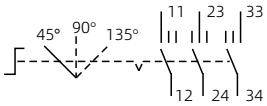
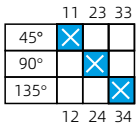
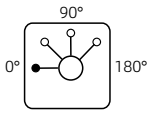
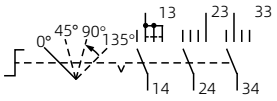
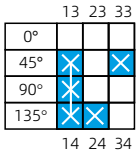
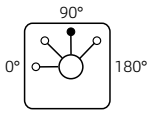
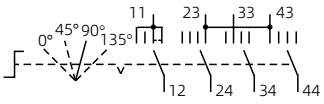
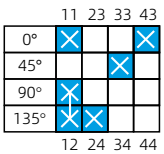
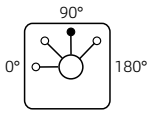
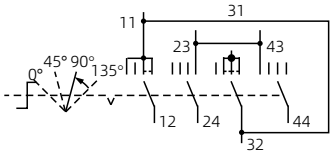
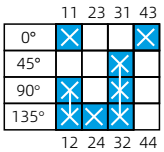
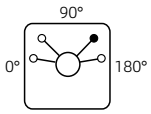
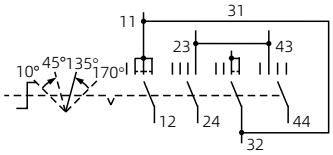
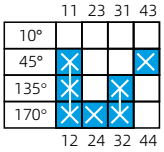


- For installation in HARDO enclosures designed for operation in hazardous areas 1, 2, 21 and 22
- Configurable from 2 to 12 positions
- Comfortable Ø 78 mm knob

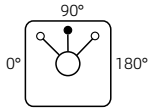
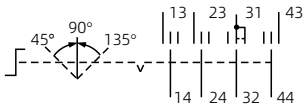
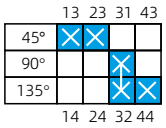
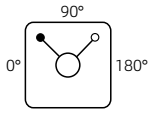
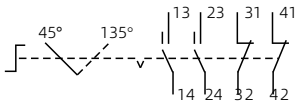
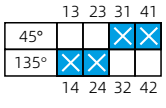
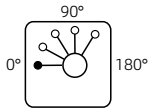
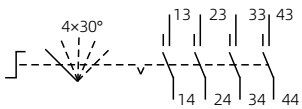
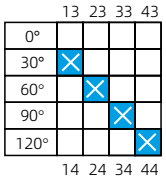
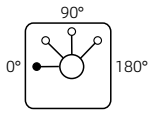
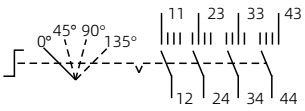
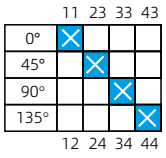
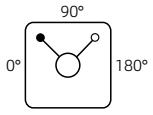
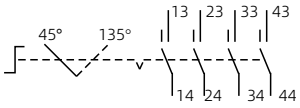
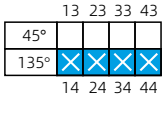
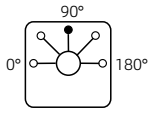
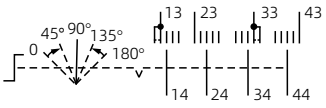
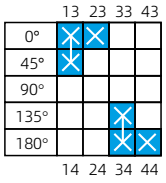
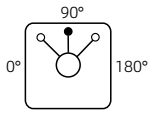
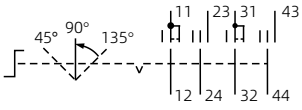
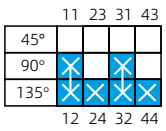
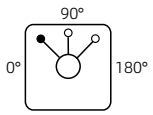
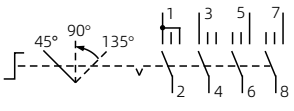
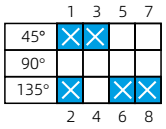
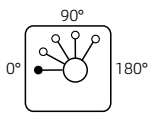
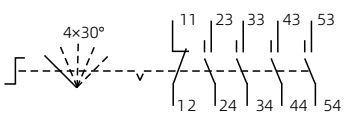
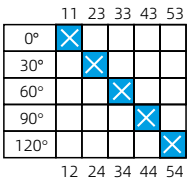


The configurable, multi-position module used in HARDO switches can serve either a control or isolation function. Thanks to its modular design, the switch can have from 2 to 12 operating contact poles, as well as PE and N contacts. Depending on the position, the switch knob may lock or return to its original position. The device is equipped with a 78 mm diameter dial.

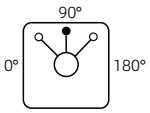
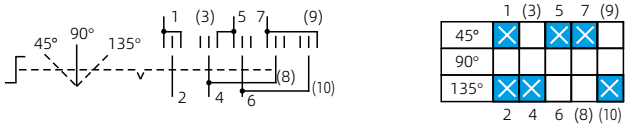
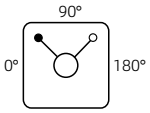
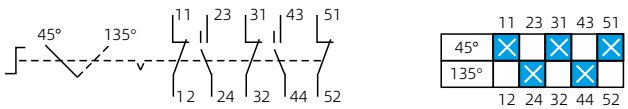
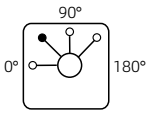
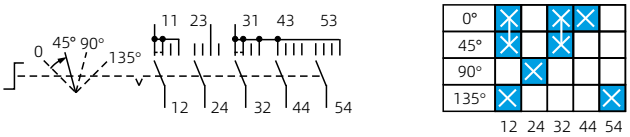
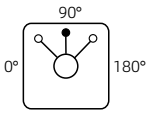
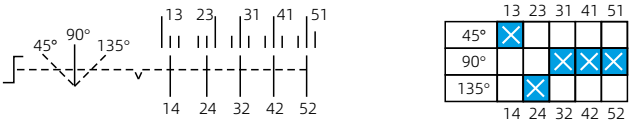
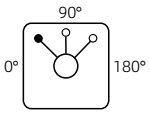
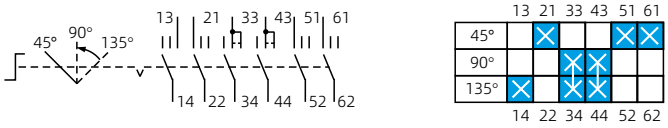
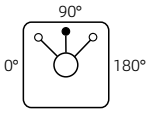
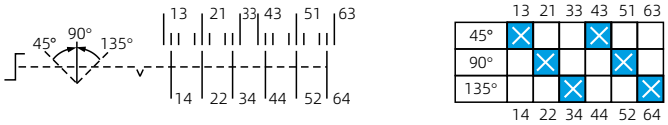
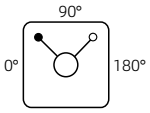
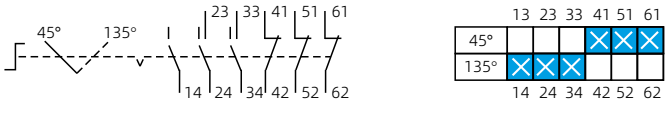
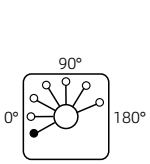
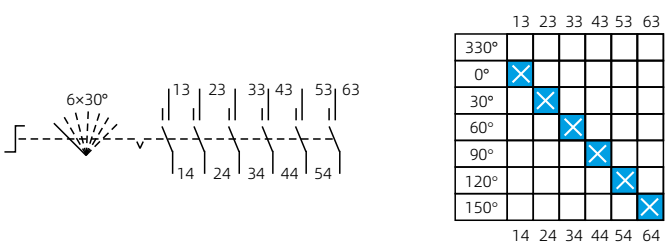
Parameters	
Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
Marking according to ATEX	Ⓔx II 2 G Ex db eb IIC T5/T6 Gb | Ⓔx II 2 D Ex tb IIIC T85°C Db
Marking according to IECEx	Ex db eb IIC T5/T6 Gb | Ex tb IIIC T85°C Db
Knob size	Ø 78 mm
Permissible ambient temperature	-40°C to +55°C
Degree of protection	IP66
Rated voltage	230 to 690V
Rated current	25A
Short circuit protection (fuse ratings)	25A: 20kA, 500V/35A Fuse type: gG (IEC/EN 60269-1)
Rated insulation voltage (U_{i})	800V
Rated impulse withstand voltage (U_{imp})	6kV
Rated short-time withstand current (I_{cw})	3kA
Rated short-circuit making capacity (I_{cm})	4kA
Cross section of wires	25A: 2×1.5 to 4mm²
Contact material	silver alloy

Switch positions		Contact diagram		Weight [kg]	Reference no
	2P			0.350	**25A/02-101-5TD**
				0.350	**25A/02-102-5TD**
				0.350	**25A/02-103-5TD**
				0.350	**25A/02-104-5TD**
	3P			0.410	**25A/03-104-5TD**
				0.410	**25A/03-105-5TD**
				0.410	**25A/03-106-5TD**
	4P			0.440	**25A/04-100-5TD**
				0.440	**25A/04-101-5TD**
				0.440	**25A/04-102-5TD**

Other configurations are available upon request.

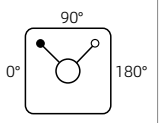
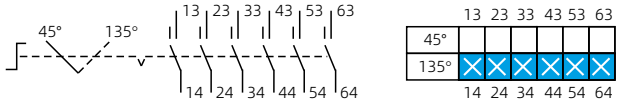
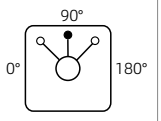
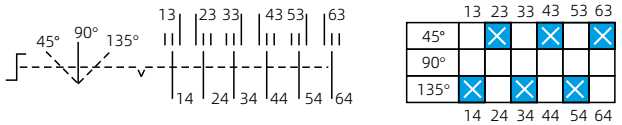
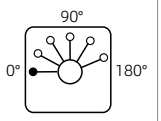
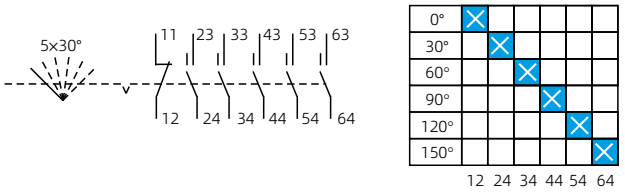
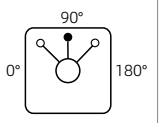
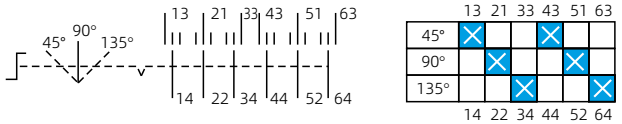
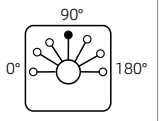
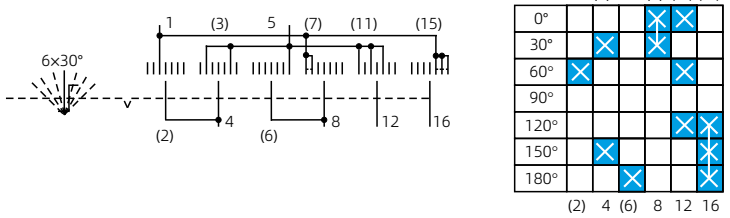
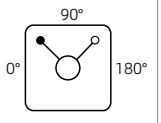
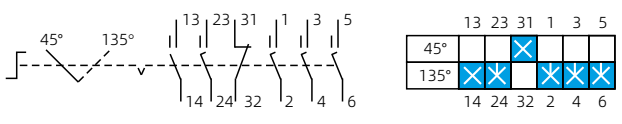
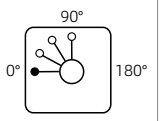
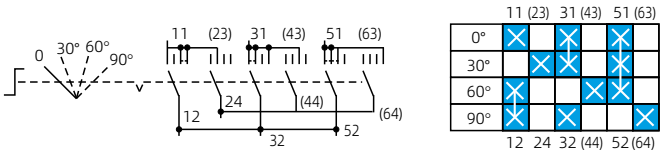
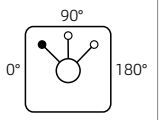
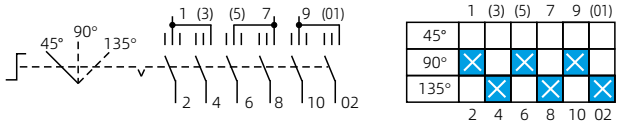
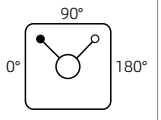
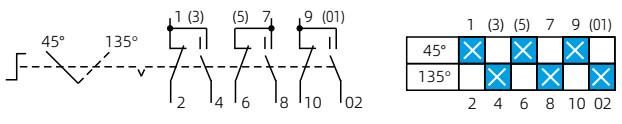
Switch positions		Contact diagram		Weight [kg]	Reference no
	4P			0.440	**25A/04-103-5TD**
				0.440	**25A/04-104-5TD**
				0.440	**25A/04-105-5TD**
				0.440	**25A/04-106-5TD**
				0.440	**25A/04-107-5TD**
				0.440	**25A/04-108-5TD**
				0.440	**25A/04-109-5TD**
				0.440	**25A/04-110-5TD**
	5P			0.520	**25A/05-101-5TD**

Other configurations are available upon request.

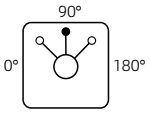
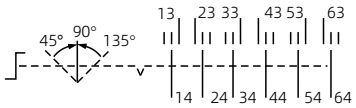
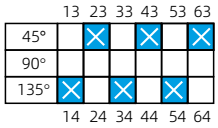
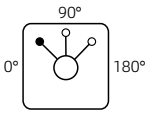
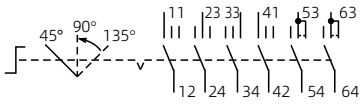
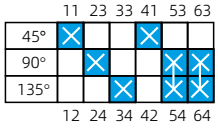
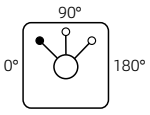
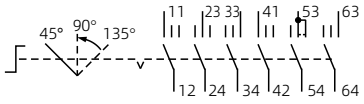
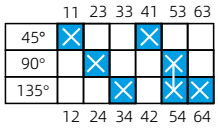
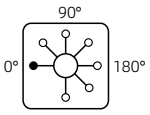
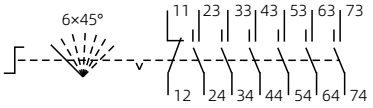
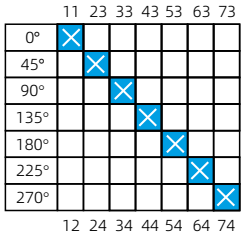
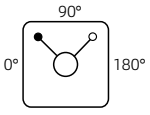
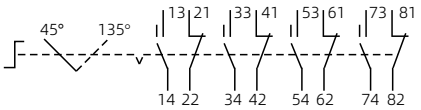
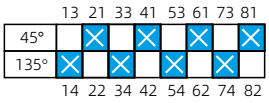
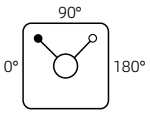
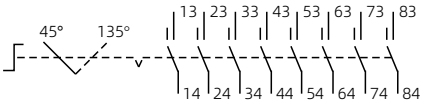
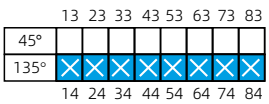
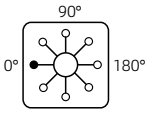
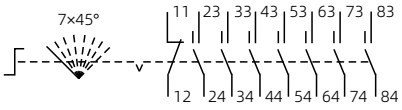
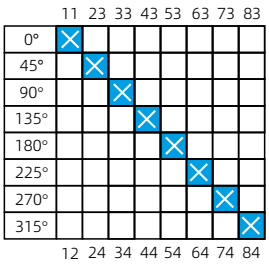
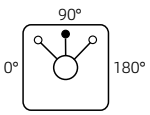
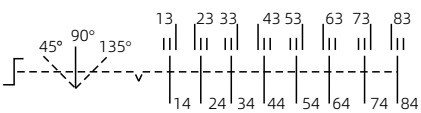
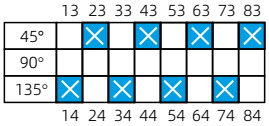
Switch positions		Contact diagram	Weight [kg]	Reference no
	5P		0.520	**25A/05-102-5TD**
			0.520	**25A/05-103-5TD**
			0.520	**25A/05-104-5TD**
			0.520	**25A/05-105-5TD**
	6P		0.550	**25A/06-101-5TD**
			0.550	**25A/06-102-5TD**
			0.550	**25A/06-103-5TD**
			0.610	***25A/06-104-5TD**

* 25A/06-104TD The external dimensions of this switch correspond to 8 poles switch.

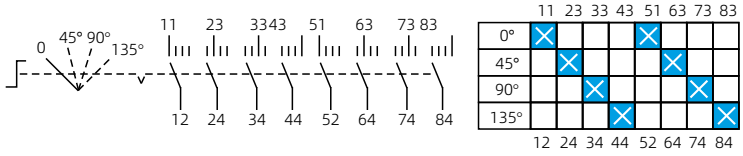
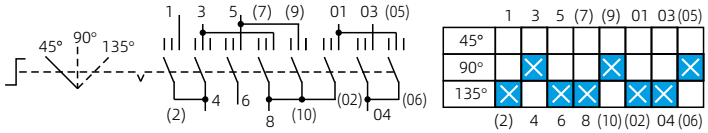
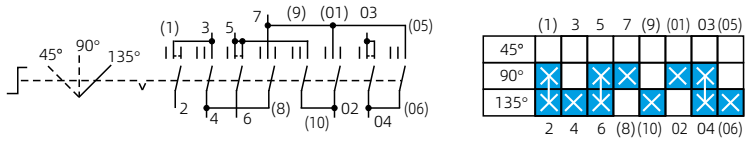
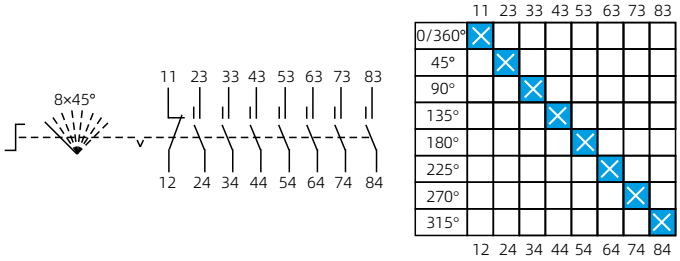
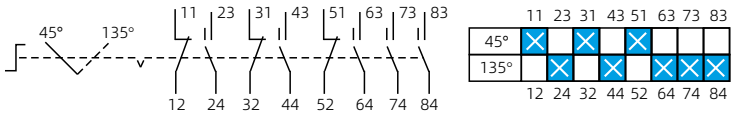
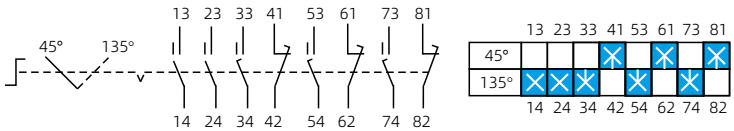
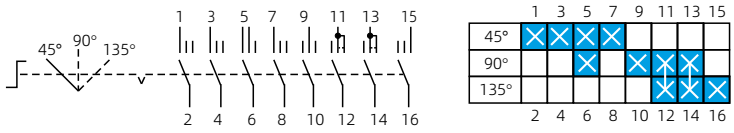
Other configurations are available upon request.

Switch positions		Contact diagram	Weight [kg]	Reference no
	6P		0.550	**25A/06-105-5TD**
			0.550	**25A/06-106-5TD**
			0.550	**25A/06-107-5TD**
			0.550	**25A/06-108-5TD**
			0.550	**25A/06-109-5TD**
			0.550	**25A/06-110-5TD**
			0.550	**25A/06-111-5TD**
			0.550	**25A/06-112-5TD**
			0.550	**25A/06-113-5TD**

Other configurations are available upon request.

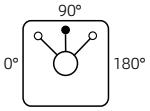
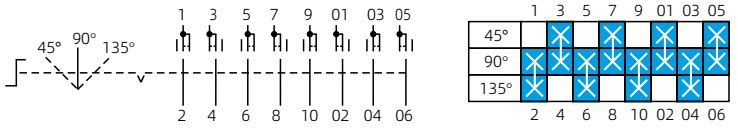
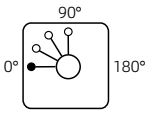
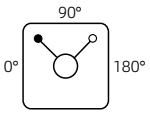
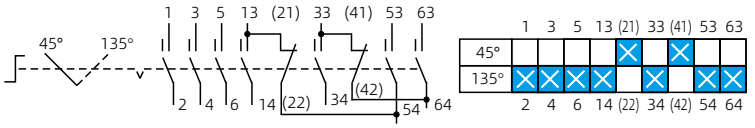
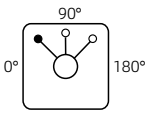
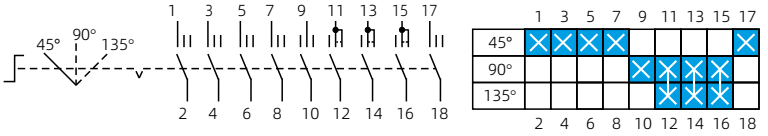
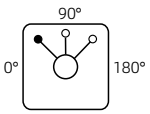
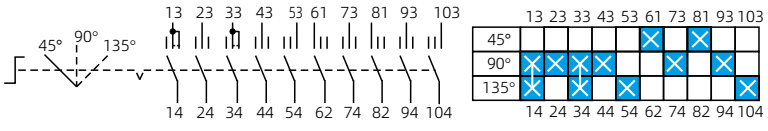
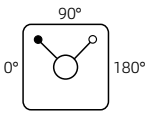
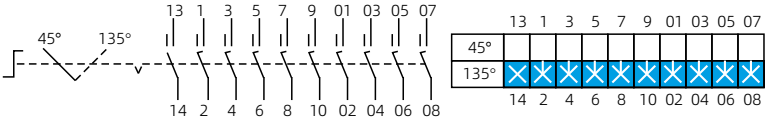
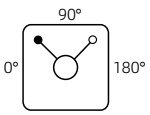
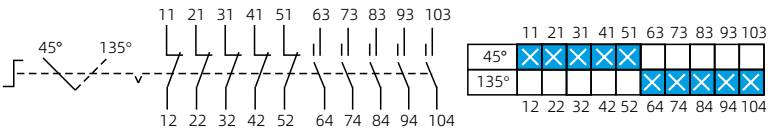
Switch positions		Contact diagram	Weight [kg]	Reference no
	6P	 	0.550	**25A/06-114-5TD**
		 	0.550	**25A/06-115-5TD**
		 	0.550	**25A/06-116-5TD**
	7P	 	0.620	**25A/07-101-5TD**
	8P	 	0.650	**25A/08-101-5TD**
		 	0.650	**25A/08-102-5TD**
		 	0.650	**25A/08-103-5TD**
		 	0.650	**25A/08-104-5TD**

Other configurations are available upon request.

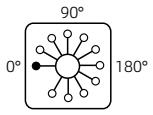
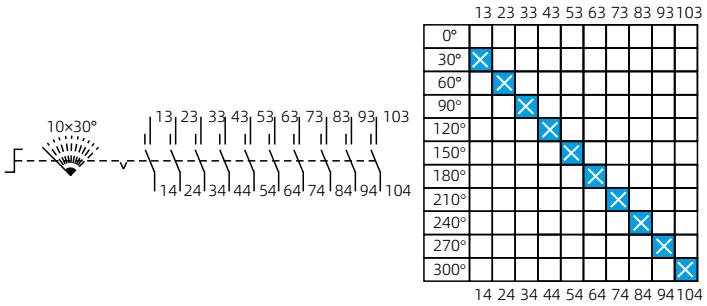
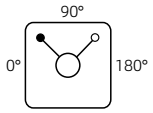
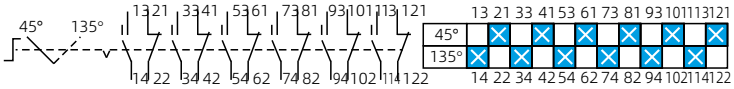
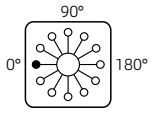
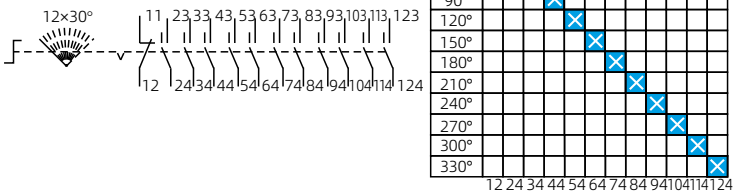
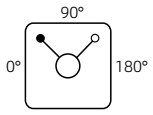
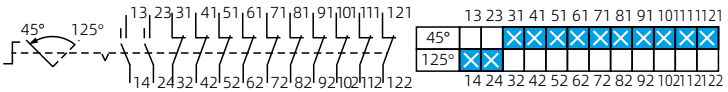
Switch positions	Contact diagram	Weight [kg]	Reference no
90° 0° 180°		0.650	**25A/08-105-5TD**
90° 0° 180°		0.650	**25A/08-106-5TD**
90° 0° 180°		0.650	**25A/08-107-5TD**
90° 0° 180°		0.650	**25A/08-108-5TD**
90° 0° 180°		0.650	**25A/08-109-5TD**
90° 0° 180°		0.650	**25A/08-110-5TD**
90° 0° 180°		0.650	**25A/08-111-5TD**

8P

Other configurations are available upon request.

Switch positions		Contact diagram	Weight [kg]	Reference no
	8P		0.650	**25A/08-112-5TD**
			0.650	**25A/08-113-5TD**
	9P		0.720	**25A/09-101-5TD**
			0.720	**25A/09-102-5TD**
	10P		0.740	**25A/10-101-5TD**
			0.740	**25A/10-102-5TD**
			0.740	**25A/10-103-5TD**

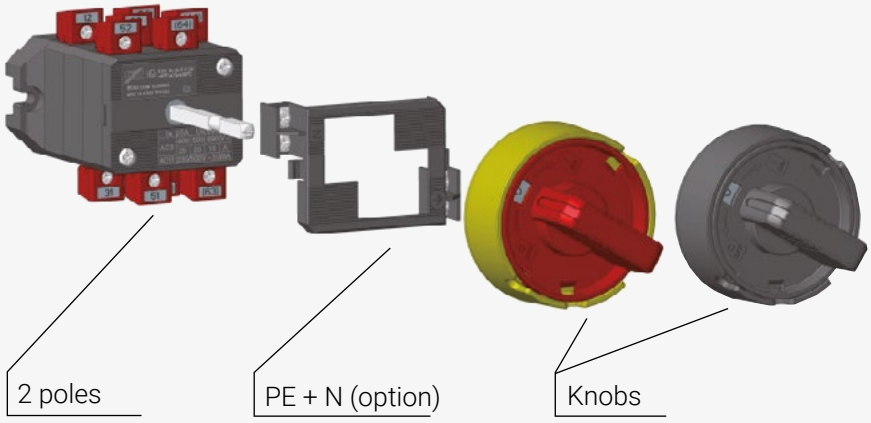
Other configurations are available upon request.

Switch positions	Contact diagram	Weight [kg]	Reference no
		0.800	***25A/10-100-5TD**
		0.840	**25A/12-101-5TD**
		0.840	**25A/12-102-5TD**
		0.840	**25A/12-103-5TD**

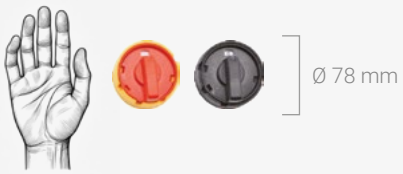
* The external dimensions of this switch correspond to 12 poles switch.
Other configurations are available upon request.

Control and main switches

switch positions: 2 | **contacts:** 3-8 + PE + N | **current:** 25A

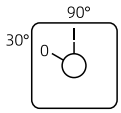
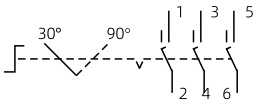
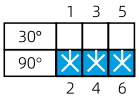
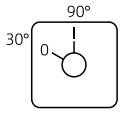
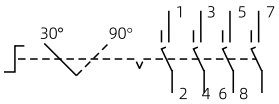
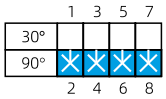
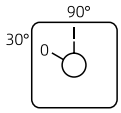
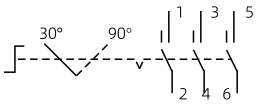
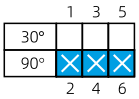
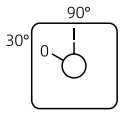
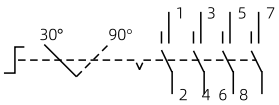
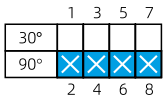
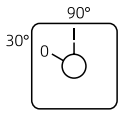
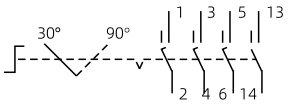
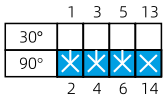
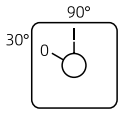
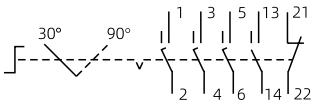
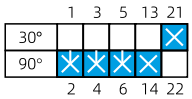
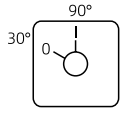
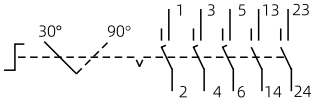
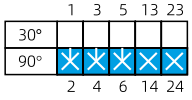
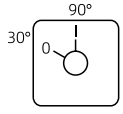
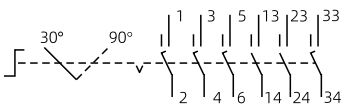
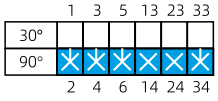
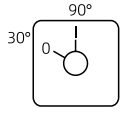
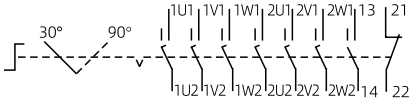
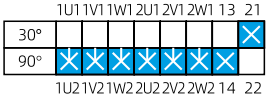
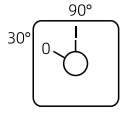
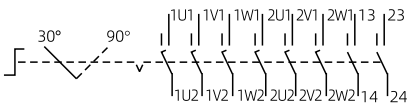
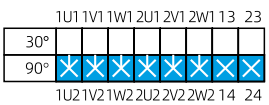


- For installation in HARDO enclosures designed for operation in hazardous areas 1, 2, 21 and 22.
- Comfortable Ø 78mm knob



The two-position module used in HARDO switches allows safe control and isolation of electrical circuits in hazardous areas. The modular design offers extensive configuration possibilities — depending on requirements, a switch built on this module can be equipped with 3 to 8 contacts, as well as PN and N contacts. The integrated spring-operated quick-make and quick-break mechanism ensures reliable and durable operation. Silver alloy contacts and stainless steel screws guarantee high conductivity and corrosion resistance. In addition, the module features a long isolation path, which increases the safety of use.

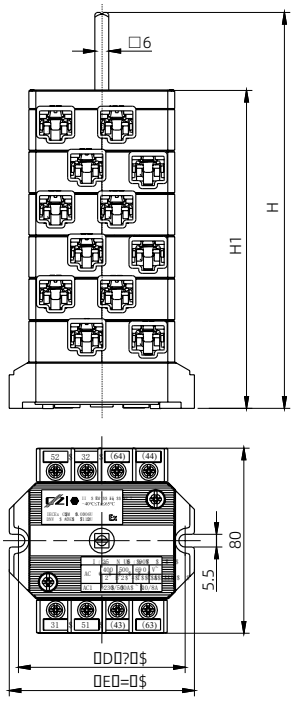
Parameters	
Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
Marking according to ATEX	II 2 G Ex db eb IIC T5/T6 Gb | II 2 D Ex tb IIIC T85°C Db
Marking according to IECEx	Ex db eb IIC T5/T6 Gb | Ex tb IIIC T85°C Db
Knob size	Ø 78 mm
Permissible ambient temperature	-40°C to +55°C
Degree of protection	IP66
Rated voltage	230 to 690V
Rated current	25A
Short circuit protection (fuse ratings)	25A: 20kA, 500V/35A Fuse type: gG (IEC/EN 60269-1)
Rated insulation voltage (U_{Ui})	800V
Rated impulse withstand voltage (U_{imp})	6kV
Rated short-time withstand current (I_{cw})	3kA
Rated short-circuit making capacity (I_{cm})	4kA
Cross section of wires	25A: 2×1.5 to 4mm²
Contact material	silver alloy

Switch positions		Contact diagram		Weight [kg]	Reference no
	3P			0.410	**25A/3P-5PD**
	4P			0.440	**25A/4P-5PD**
	3P			0.410	**25A/03-5PD**
	4P			0.440	**25A/04-5PD**
	4P			0.440	**25A/3P-4-5PD**
	5P			0.520	**25A/3P-0-5PD**
	5P			0.520	**25A/3P-2-5PD**
	6P			0.550	**25A/3P-5-5PD**
	8P			0.650	**25A/6P-0-5PD**
				0.650	**25A/6P-2-5PD**

D - black knob (optional E - red knob)

Other configurations are available upon request.

Switch module dimensions



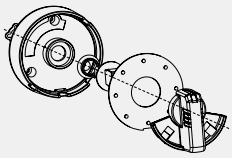
Layers / poles	H1	H
1/2P	47	106
2/3P-4P	65	106
3/5P-6P	83	151
4/7P-8P	101	151
5/9P-10P	119	171
6/11P-12P	137	171

1. Each layer has two separate switch contacts or one switch contact and one cap.
2. Maximum of 6 layers / 12 poles.

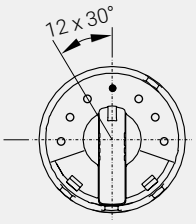
Knobs for modules up to 25A

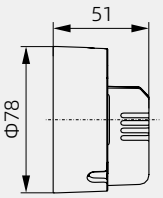
Control switches (2 - 12 positions), up to 25A





5TD





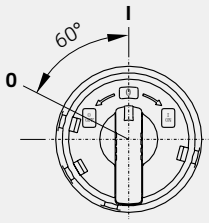
Main and safety switches (2 positions), up to 25A

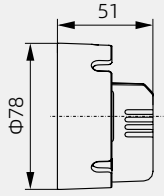


5PE



5PD





Motor switches

switch positions: 2 | **contacts:** 3 + NO, NC, PE, D1, D2 | **overload trigger:** 0,1-25A

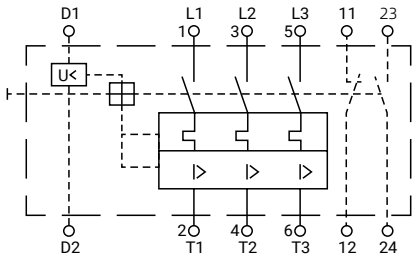


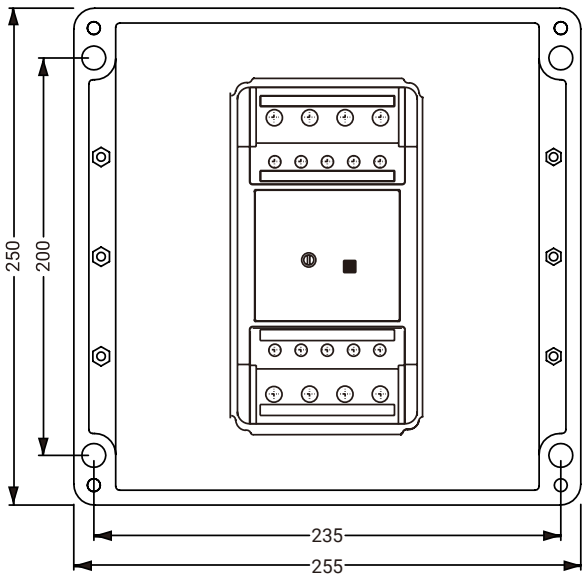
Certified motor switch with a large 97 mm diameter knob that allows the motor to be operated even with work gloves

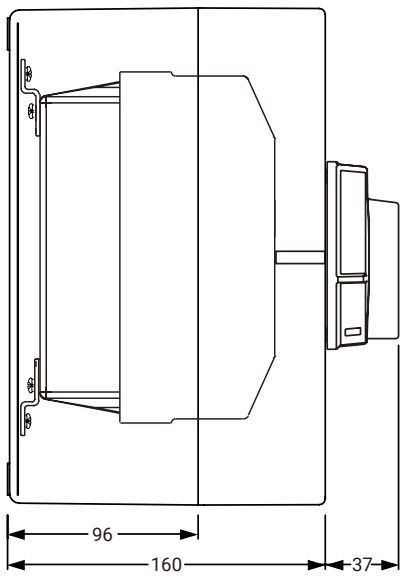


The HARDO motor circuit breaker provides comprehensive protection for electric motors against overload, short circuit, overheating, phase loss and optional voltage drop. Its robust design and wide range of current settings allow it to be used in a variety of industrial applications. The device effectively protects motors from damage resulting from adverse operating conditions.

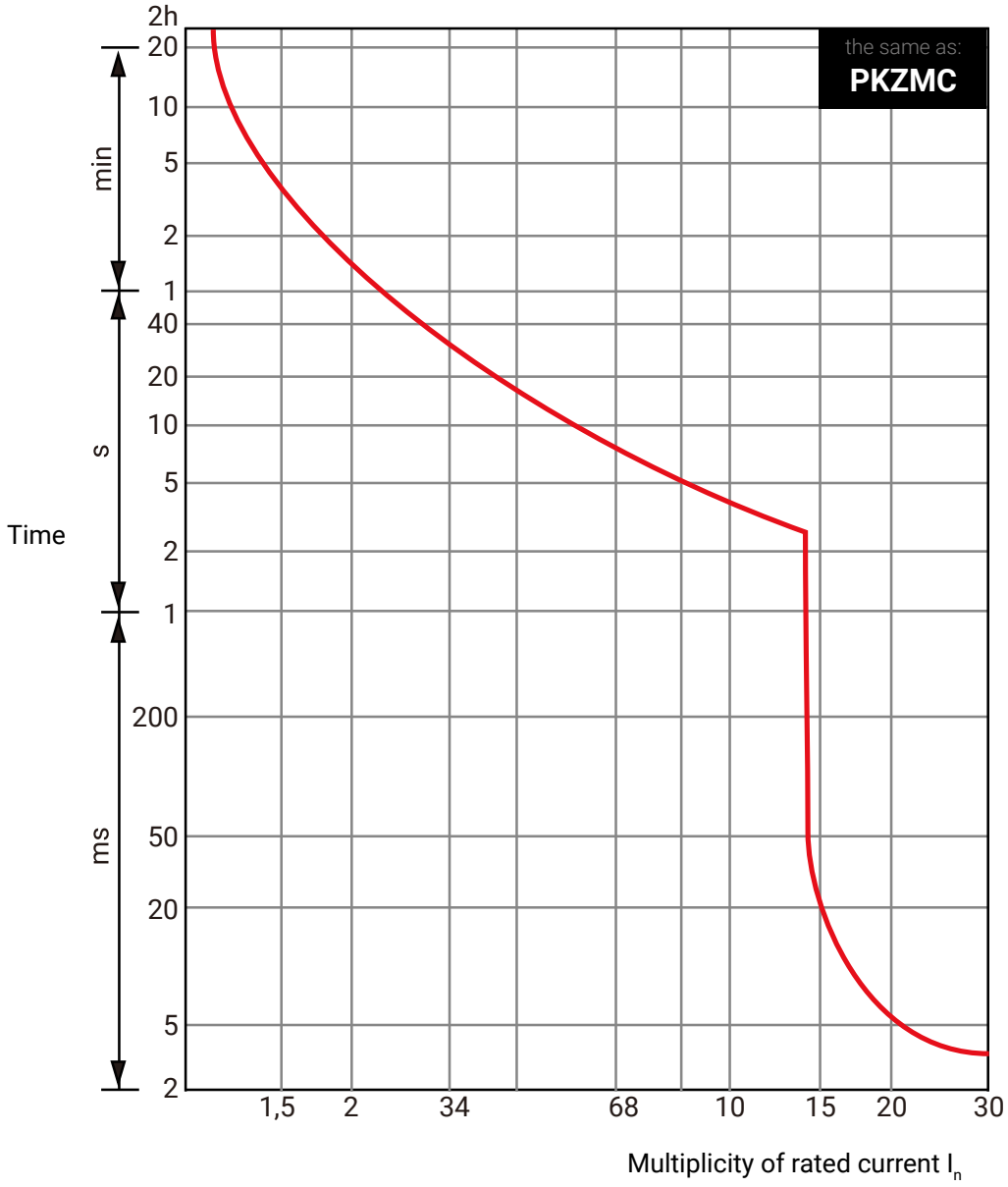
Parameters	
Designed for Ex zones	**Gases:** 1 and 2 | **Dusts:** 21 and 22
Marking according to ATEX	II 2 G Ex db eb IIC T4/T5/T6 Gb | II 2 D Ex tb IIIC T85°C Db
Marking according to IECEx	Ex db eb IIC T5/T6 Gb | Ex tb IIIC T85°C Db
Knob size	Ø 97 mm
Permissible ambient temperature	-40°C to +55°C
Degree of protection	IP66
Rated voltage	440V
Applied protections:	▸ overload protection ▸ undervoltage protection (optional) ▸ phase failure protection ▸ short-circuit protection ▸ thermal protection
Overload trip range	0.1 to 25A
Motor switching capacity in AC-3 category	up to 440V / 25A
Main contacts	from 1 to 10 mm² (from 6 to 10 mm²using collets)
Auxiliary contacts	1 to 2.5 mm²
Auxiliary contact capacity	AC15 1A / 230V
Rated switching capacity	high - up to 65 kA

Photo	Overload trip range	Rated switching capacity (making and breaking)	Cable glands	Order No
 ~6,25 kg 250 x 260 x 160 mm	0.1 - 0.16A	65kA	2 x M25	HCS1P 252616 S01211
	0.16 - 0.25A	65kA	2 x M25	HCS1P 252616 S01221
	0.25 - 0.4A	65kA	2 x M25	HCS1P 252616 S01231
	0.4 - 0.63A	65kA	2 x M25	HCS1P 252616 S01241
	0.63 - 1A	65kA	2 x M25	HCS1P 252616 S01251
	1 - 1.6A	65kA	2 x M25	HCS1P 252616 S01261
	1.6 - 2.5A	65kA	2 x M25	HCS1P 252616 S01271
	2.5 - 4A	16kA	2 x M25	HCS1P 252616 S01281
	4 - 6.3A	16kA	2 x M25	HCS1P 252616 S01291
	6.3 - 10A	16kA	2 x M25	HCS1P 252616 S01301
	10 - 16A	16kA	2 x M25	HCS1P 252616 S01311
	16 - 20A	12kA	2 x M32	HCS1P 252616 S01321
	20 - 25A	12kA	2 x M32	HCS1P 252616 S01331
	Electrical diagram		Options	
			**1** - basic version without trigger undervoltage and auxiliary contacts **2** - with undervoltage trigger **3** - with auxiliary contacts 1NO + 1NC with undervoltage trigger and auxiliary contacts 1NO + 1NC	





Trigger characteristics (ambient temp. 30°C)



Motor switch knob



8003/2DA

