

HCS1P series for Zones 1/2 and 21/22

Main, isolating, control and safety switches for hazardous areas



Construction

Glass-reinforced polyester (GRP) used in the production of HCS1P series isolator switches has been chosen to ensure maximum protection against corrosion-causing factors and UV radiation. HARDO switches have the following features:

- ▶ Locking capability using a padlock
- ▶ Cover screws made of AISI 316L stainless steel
- ▶ Cover equipped with a silicone gasket
- ▶ Internal mounting screws made of corrosion-resistant material
- ▶ A wide range of enclosure sizes to meet all customer requirements
- ▶ Option to use an internal grounding plate (for metal cable glands)
- ▶ Possibility to use metal (stainless steel, nickel-plated brass, brass) or polyamide cable glands

General technical data HCS1P xxxxx xxxxxx

Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC T5/T6 Gb Ex 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
ATEX certificate	FIDI 22 ATEX 0065X
IECEx certificate	IECEx FIDI 22.0008X
Permissible ambient temperature	from -20°C to +40°C (optionally from -40°C to +55°C)
Rated current	400 V
Prąd znamionowy	20A / 25A / 35A / 40A / 63A / 75A
Degree of protection according to EN 60529	IP66
Enclosure material	glass-reinforced polyester (GRP)
Enclosure color	black

Marking and parameters depend on the installed equipment.
Other configurations are available upon request.

A large 106mm switch handle, allowing operation even while wearing work gloves



From 2 to 12 contacts





Switches for a rated current of 20 A

Type HCS1P 161609 Sxxxx

Technical data \ Order number	HCS1P 161609 S01601	HCS1P 161609 S01611
Marking according to 2014/34/EU	II 2 G Ex db eb IIC T6 Gb II 2 D Ex tb IIIC T85°C Db	
Marking according to IECEx	Ex db eb IIC T6 Gb Ex tb IIIC T85°C Db	
Permissible ambient temperature	od -20°C do +40°C	od -40°C do +40°C
Rated voltage	400 V	
Rated current	20 A	
Dimensions (L x W x H)	160 x 160 x 90 mm	
Cable glands	2 x M32	



Switches for a rated current of 25 A

Type HCS1P 161609 Sxxxx

Technical data \ Order number	HCS1P 161609 S01621	HCS1P 161609 S01631
Marking according to 2014/34/EU	II 2 G Ex db eb IIC T5 Gb II 2 D Ex tb IIIC T85°C Db	
Marking according to IECEx	Ex db eb IIC T5 Gb Ex tb IIIC T85°C Db	
Permissible ambient temperature	od -20°C do +40°C	od -40°C do +40°C
Rated voltage	400 V	
Rated current	25 A	
Dimensions (L x W x H)	160 x 160 x 90 mm	
Cable glands	2 x M32	

Other configurations are available upon request.

Switches for a rated current of 35 A



Type HCS1P 252616 Sxxx

Technical data \ Order number	HCS1P 252616 S01701	HCS1P 252616 S01711
Marking according to 2014/34/EU	II 2 G Ex db eb IIC T6 Gb II 2 D Ex tb IIIC T85°C Db	
Marking according to IECEx	Ex db eb IIC T6 Gb Ex tb IIIC T85°C Db	
Permissible ambient temperature	od -20°C do +40°C	od -40°C do +40°C
Rated voltage	400 V	
Rated current	35 A	
Dimensions (L x W x H)	250 x 260 x 160 mm	
Cable glands	2 x M40	

Switches for a rated current of 40 A



Type HCS1P 252616 Sxxx

Technical data \ Order number	HCS1P 252616 S01721	HCS1P 252616 S01731
Marking according to 2014/34/EU	II 2 G Ex db eb IIC T5 Gb II 2 D Ex tb IIIC T85°C Db	
Marking according to IECEx	Ex db eb IIC T5 Gb Ex tb IIIC T85°C Db	
Permissible ambient temperature	od -20°C do +40°C	od -40°C do +40°C
Rated voltage	400 V	
Rated current	40 A	
Dimensions (L x W x H)	250 x 260 x 160 mm	
Cable glands	2 x M40	

Other configurations are available upon request.



Switches for a rated current of 63 A

Type HCS1P 254016 Sxxx

Order number	HCS1P 254016 S01801	HCS1P 254016 S01811
Technical data		
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db	
Marking according to IECEx	Ex db eb IIC T6 Gb Ex tb IIIC T85°C Db	
Permissible ambient temperature	od -20°C do +40°C	od -40°C do +40°C
Rated voltage	400 V	
Rated current	63 A	
Dimensions (L x W x H)	250 x 400 x 160 mm	
Cable glands	2 x M50	

Order number	HCS1P 254016 S01821	HCS1P 254016 S01831
Technical data		
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC T5 Gb Ex II 2 D Ex tb IIIC T85°C Db	
Marking according to IECEx	Ex db eb IIC T5 Gb Ex tb IIIC T85°C Db	
Permissible ambient temperature	od -20°C do +40°C	od -40°C do +40°C
Rated voltage	400 V	
Rated current	63 A	
Dimensions (L x W x H)	250 x 400 x 160 mm	
Cable glands	2 x M50	

Other configurations are available upon request.



Switches for a rated current of 75 A

Type HCS1P 254016 Sxxxx

Technical data \ Order number	HCS1P 254016 S01841	HCS1P 254016 S01851
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db	
Marking according to IECEx	Ex db eb IIC T6 Gb Ex tb IIIC T85°C Db	
Permissible ambient temperature	od -20°C do +40°C	od -40°C do +40°C
Rated voltage	400 V	
Rated current	75 A	
Dimensions (L x W x H)	250 x 400 x 160 mm	
Cable glands	2 x M50	

Technical data \ Order number	HCS1P 254016 S01861	HCS1P 254016 S01871
Marking according to 2014/34/EU	Ex II 2 G Ex db eb IIC T5 Gb Ex II 2 D Ex tb IIIC T85°C Db	
Marking according to IECEx	Ex db eb IIC T5 Gb Ex tb IIIC T85°C Db	
Permissible ambient temperature	od -20°C do +40°C	od -40°C do +40°C
Rated voltage	400 V	
Rated current	75 A	
Dimensions (L x W x H)	250 x 400 x 160 mm	
Cable glands	2 x M50	

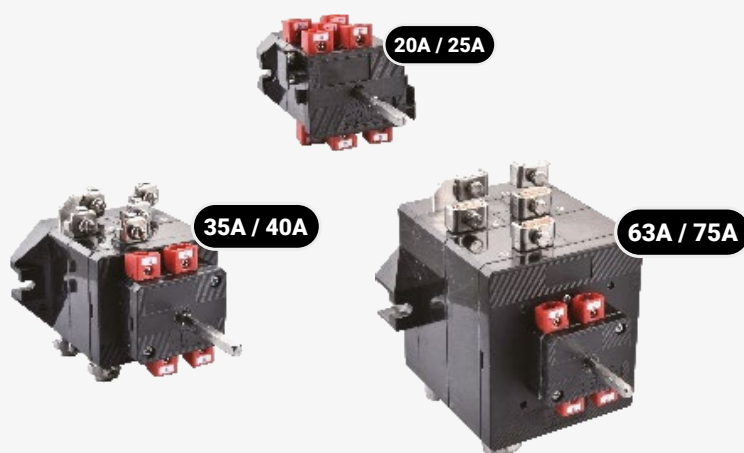
Other configurations are available upon request.

Main, isolating and safety switch modules [20A / 25A / 35A / 40A / 63A / 75A]

This explosion-proof isolation switch is designed for hazardous areas (zones 1, 2, 21, and 22).

It provides reliable electrical isolation for industrial applications requiring increased safety and durability. The

switch is constructed using high-quality materials, ensuring resistance to extreme environmental conditions, mechanical damage, and dust. The ergonomic design ensures convenient operation, while its compact size allows for flexible integration into electrical systems.

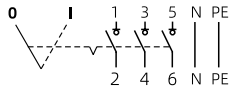
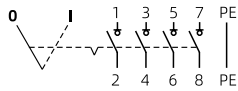
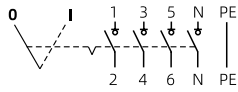
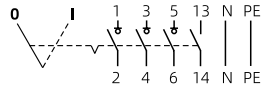
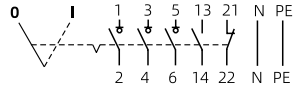
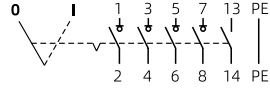
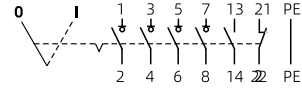
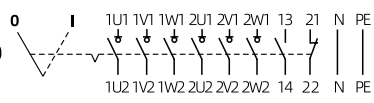
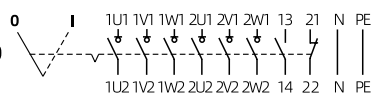
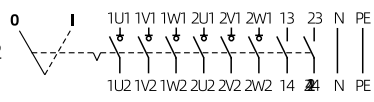
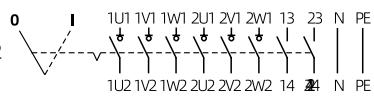


**Zone 1 and Zone 2
Zone 21 and Zone 22**



Technical Specifications		Electrical Ratings	
Marking according to 2014/34/EU	II 2 GD Ex db eb IIC Gb	Rated voltage	230 to 400V
Marking according to IECEx	Ex db eb IIC Gb	Rated current	20A / 25A / 35A / 40A / 63A / 75A
ATEX certificate	CML 19ATEX1179U	Short-circuit protection (fuse ratings)	20A/25A: 20kA, 500V/35A 35A/40A: 20kA, 500V/63A 63A/75A: 50kA, 500V/160A
IECEx certificate	IECEx CML 19.0055U	Fuse Type: gG (IEC/EN 60269-1)	
Permissible ambient temperature	from -40°C to +55°C	Rated insulation voltage (U_i)	800V
Operating temperature	from -40°C to +95°C	Rated impulse withstand voltage (U_{imp})	6kV
Degree of protection	IP66	Rated short-time withstand current (I_{cw})	3kA (for 20A, 25A, 35A, 40A) 10kA (for 80A)
Enclosure material	polyamide	Rated short-time making capacity (I_{cm})	4kA (for 25A, 40A) 17kA (for 63A, 75A)
Contacts	silver alloy	Terminal cross-section area	20A/25A: 2×1.5 to 4mm ² 35A/40A: 2×10mm ² 63A/75A: 2×16 to 25mm ²
Terminals screws	stainless steel		
Quick connection/disconnection with a spring mechanism	Yes		
Flame retardancy	good		

Specification

Pictures	Diagrams	Rated current [A]	Weight [kg]	Ref. No.
 20A / 25A		20 / 25	0,34	25A/3P-□
		35 / 40	1,05	40A/3P-□
		63 / 75	3,57	80A/3P-□
 20A / 25A		20 / 25	0,37	25A/4P-□
		35 / 40	1,12	40A/4P-□
		63 / 75	3,91	80A/4P-□
 20A / 25A		20 / 25	0,37	25A/3P+N-□
		35 / 40	1,09	40A/3P+N-□
		63 / 75	3,92	80A/3P+N-□
 20A / 25A		20 / 25	0,37	25A/3P-4-□
		35 / 40	1,14	40A/3P-4-□
		63 / 75	3,66	80A/3P-4-□
 20A / 25A		20 / 25	0,44	25A/3P-0-□
		35 / 40	1,16	40A/3P-0-□
		63 / 75	3,69	80A/3P-0-□
 20A / 25A		20 / 25	0,44	25A/4P-4-□
		35 / 40	0,96	40A/4P-4-□
		63 / 75	3,56	80A/4P-4-□
 20A / 25A		20 / 25	0,47	25A/4P-0-□
		35 / 40	1,26	40A/4P-0-□
		63 / 75	4,05	80A/4P-0-□
		20 / 25	0,57	25A/6P-0-□
		35 / 40	1,69	40A/6P-0-□
		63 / 75	5,94	80A/6P-0-□
		20 / 25	0,57	25A/6P-2-□
		35 / 40	1,69	40A/6P-2-□
		63 / 75	5,94	80A/6P-2-□



RY-IS



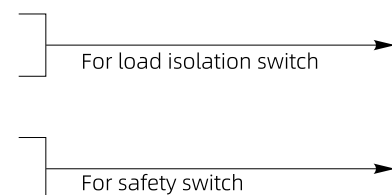
BK-IS



RY-SAF



BK-SAF

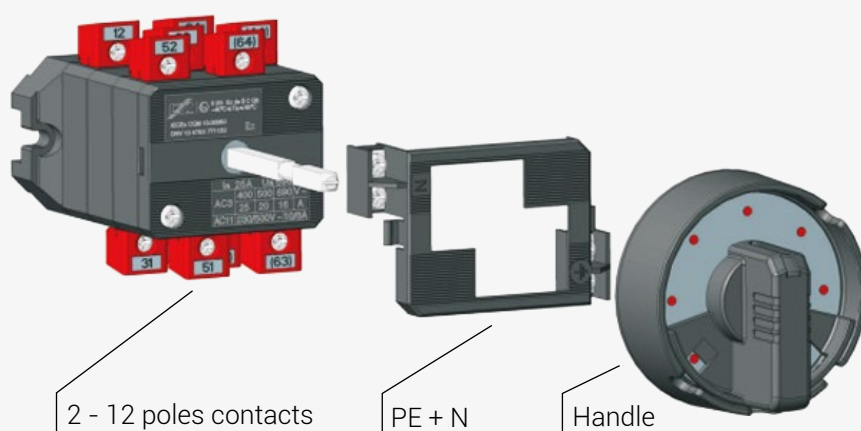


Control and main switch modules [15A / 25A] for harsh operating conditions

Explosion-proof modules for control switches and main switches are designed for use in various industrial sectors, including the refinery, chemical, and energy industries, as well as wherever increased reliability is required.

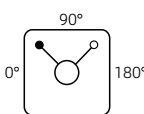
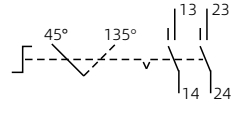
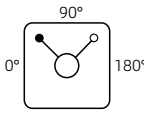
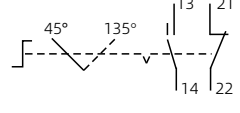
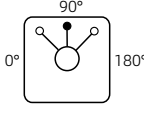
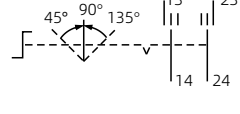
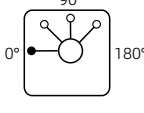
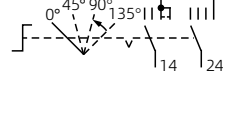
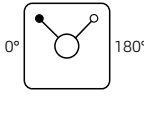
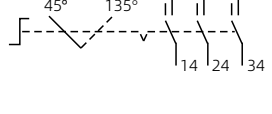
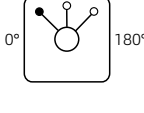
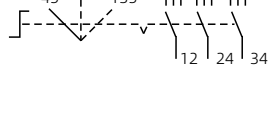
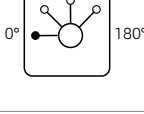
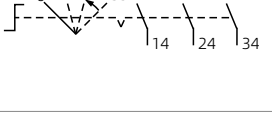
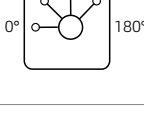
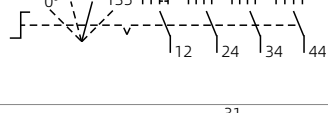
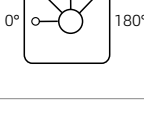
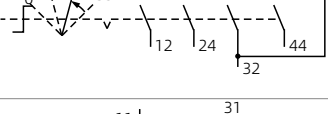
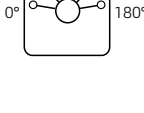
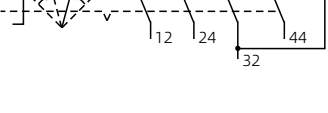
Thanks to its modular design, the switch can have from 2 to 12 contact poles. Depending on the position, the actuator can lock itself or return to its original position. The device is equipped with a large rotary knob with a diameter of 106 mm.

Multi-position switches



- For installation in HARDO enclosures designed for operation in explosion-hazard zones 1, 2, 21, and 22
- Configurable from 2 to 12 positions

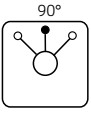
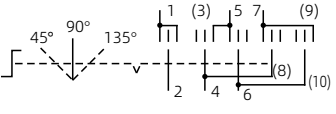
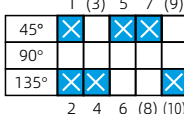
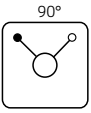
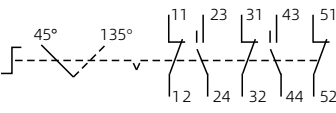
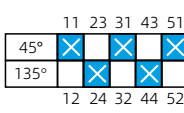
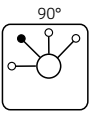
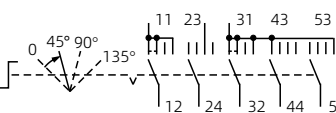
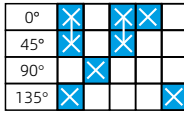
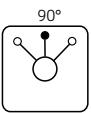
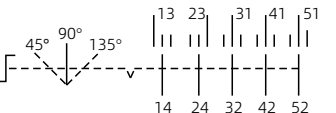
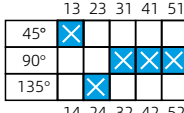
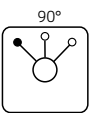
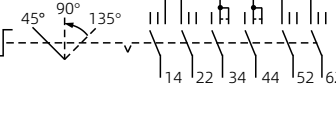
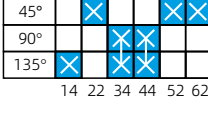
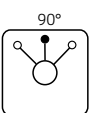
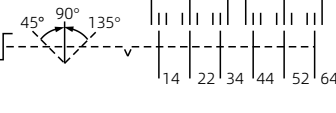
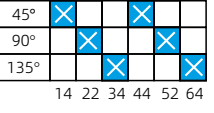
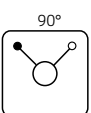
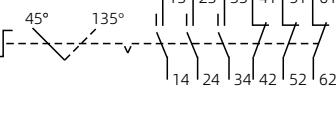
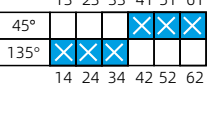
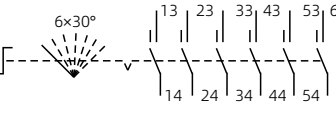
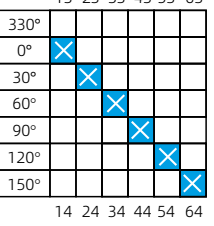
Technical Specifications		Electrical Ratings	
Marking according to 2014/34/EU	II 2 GD Ex db eb IIC Gb	Rated voltage	230 to 400V
Marking according to IECEx	Ex db eb IIC Gb	Rated current	20A / 25A / 35A / 40A / 63A / 75A
ATEX certificate	CML 19ATEX1179U	Short-circuit protection (fuse ratings)	20A/25A: 20kA, 500V/35A 35A/40A: 20kA, 500V/63A 63A/75A: 50kA, 500V/160A Fuse Type: gG (IEC/EN 60269-1)
IECEx certificate	IECEx CML 19.0055U	Rated insulation voltage (U_i)	800V
Permissible ambient temperature	from -40°C to +55°C	Rated impulse withstand voltage (U_{imp})	6kV
Operating temperature	from -40°C to +95°C	Rated short-time withstand current (I_{cw})	3kA (for 20A, 25A, 35A, 40A) 10kA (for 63A, 75A)
Degree of protection	IP66	Rated short-time making capacity (I_{cm})	4kA (for 20A, 25A, 35A, 40A) 17kA (for 63A, 75A)
Enclosure material	polyamide	Terminal cross-section area	20A/25A: 2×1.5 to 4mm ² 35A/40A: 2×10mm ² 63A/75A: 2×16 to 25mm ²
Contacts	silver alloy		
Terminals screws	stainless steel		
Quick connection/disconnection with a spring mechanism	Yes		
Flame retardancy	good		

Switch state		Contacts diagram	Weight [kg]	Ref. 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 state	Contacts diagram		Weight [kg]	Ref. No.																																										
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120°					X																																									
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Switch state	Contacts diagram	Weight [kg]	Ref. No.
	 	0.520	25A/05-102-5TD
	 	0.520	25A/05-103-5TD
5P			
	 	0.520	25A/05-104-5TD
	 	0.520	25A/05-105-5TD
	 	0.550	25A/06-101-5TD
	 	0.550	25A/06-102-5TD
	 	0.550	25A/06-103-5TD
6P			
	 	0.610	*25A/06-104-5TD

* 25A/06-104TD Outline dimension of this switch equals to 8 poles.

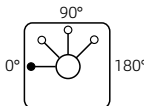
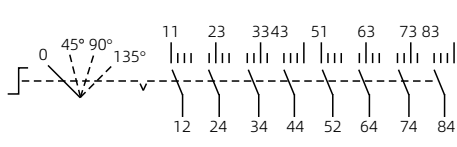
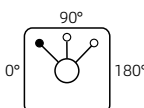
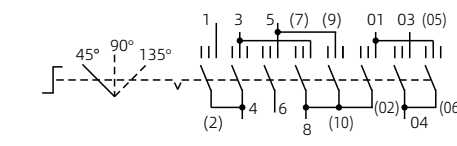
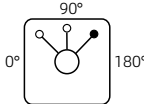
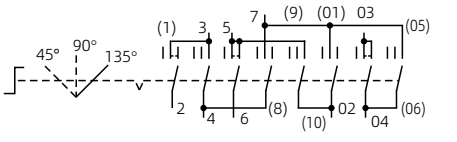
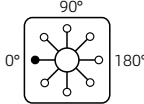
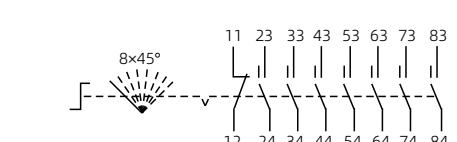
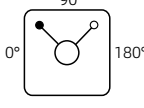
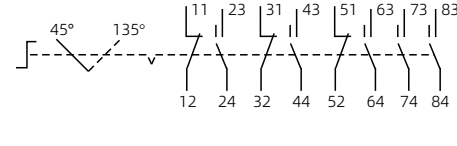
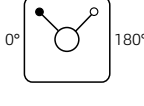
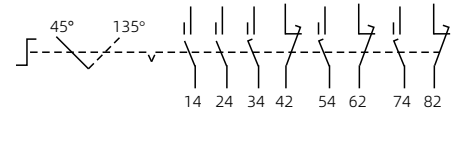
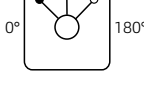
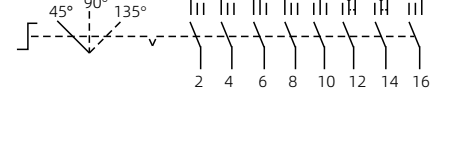
Other configurations are available upon request.

Switch state	Contacts diagram		Weight [kg]	Ref. No.
			0.550	25A/06-105-5TD
			0.550	25A/06-106-5TD
			0.550	25A/06-107-5TD
			0.550	25A/06-108-5TD
	6P		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

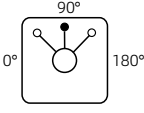
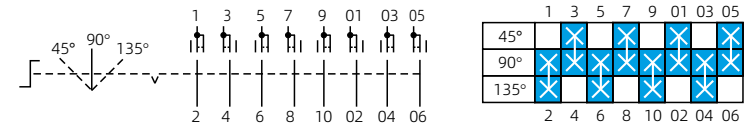
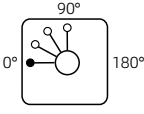
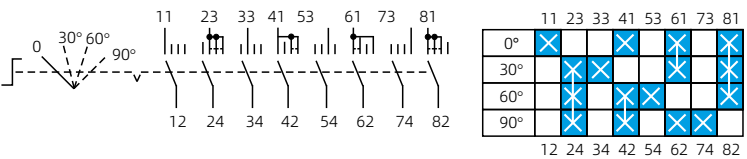
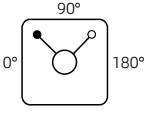
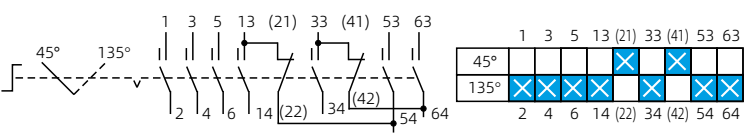
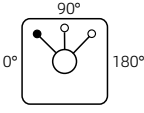
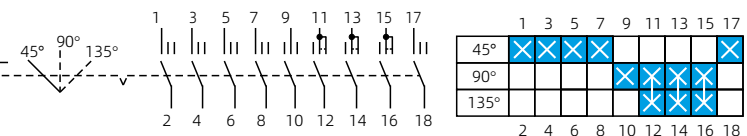
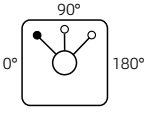
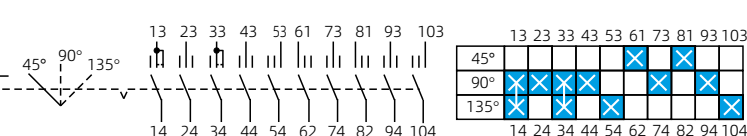
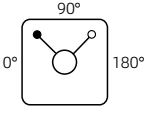
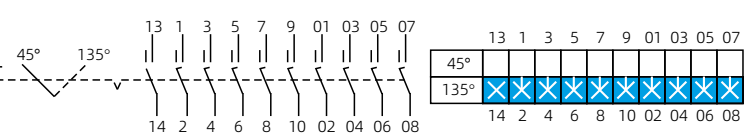
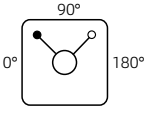
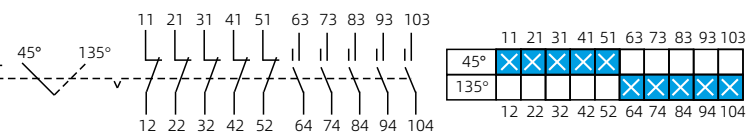
Other configurations are available upon request.

Switch state		Contacts diagram	Weight [kg]	Ref. No.
			0.550	25A/06-114-5TD
	6P		0.550	25A/06-115-5TD
			0.550	25A/06-116-5TD
	7P		0.620	25A/07-101-5TD
			0.650	25A/08-101-5TD
			0.650	25A/08-102-5TD
	8P		0.650	25A/08-103-5TD
			0.650	25A/08-104-5TD

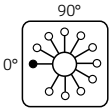
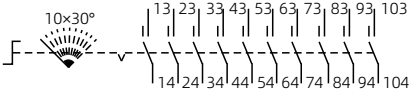
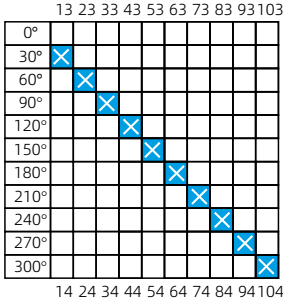
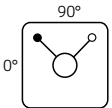
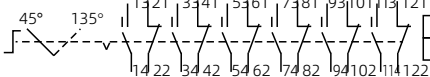
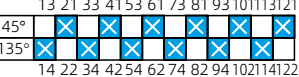
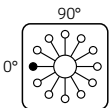
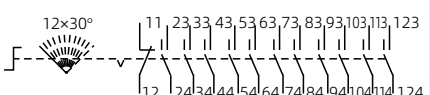
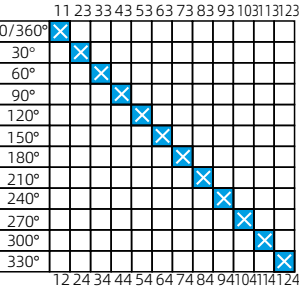
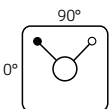
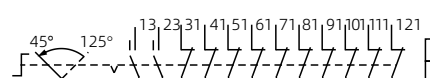
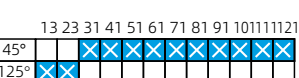
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Switch state	Contacts diagram	Weight [kg]	Ref. No.																																																																																										
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Other configurations are available upon request.

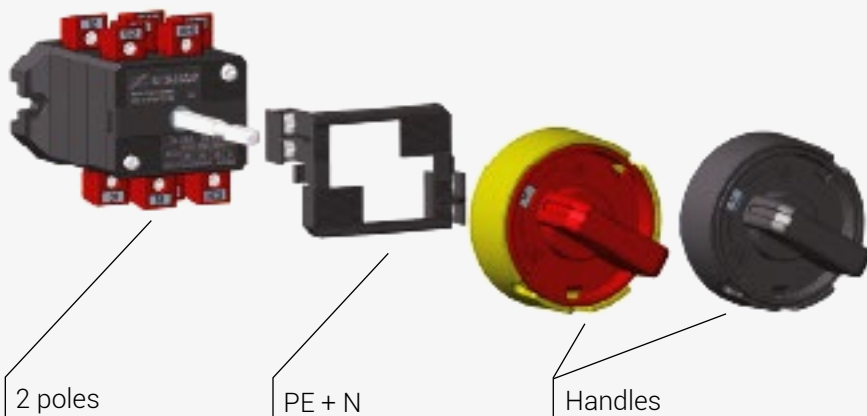
Switch state	Contacts diagram	Weight [kg]	Ref. No.
		0.650	25A/08-112-5TD
		0.650	25A/08-113-5TD
		0.720	25A/09-101-5TD
		0.720	25A/09-102-5TD
		0.740	25A/10-101-5TD
		0.740	25A/10-102-5TD
		0.740	25A/10-103-5TD

Other configurations are available upon request.

Switch state	Contacts diagram		Weight [kg]	Ref. No.
	10P	 	0.800	*25A/10-100-5TD
		 	0.840	25A/12-101-5TD
	12P	 	0.840	25A/12-102-5TD
		 	0.840	25A/12-103-5TD

* Outline dimension of this switch equals to 12 poles.
Other configurations are available upon request.

Two-position switches

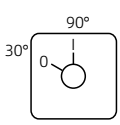
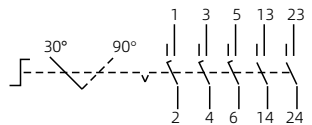
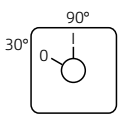
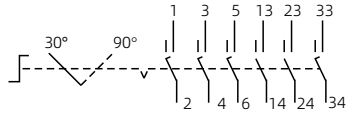
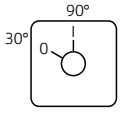
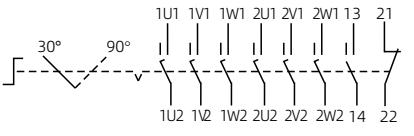
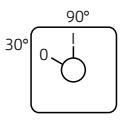
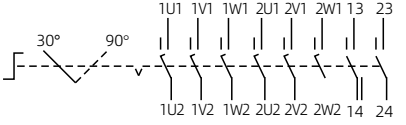


- For installation in HARDO enclosures designed for operation in explosion-hazard zones 1, 2, 21, and 22
- Can be used as an emergency switch

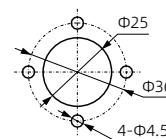
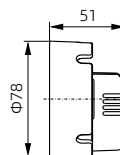
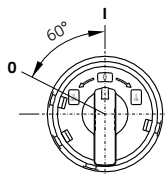
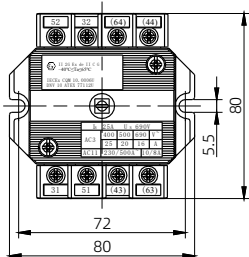
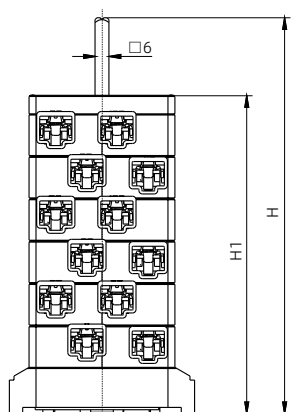
Switch state	Contacts diagram		Weight [kg]	Ref. No.
	3P		0.410	25A/3P-5PD
	4P		0.440	25A/4P-5PD
	3P		0.410	25A/03-5PD
	4P		0.440	25A/04-5PD
	4P		0.440	25A/3P-4-5PD
	5P		0.520	25A/3P-0-5PD

D - black handle (optionally E - red handle)

Other configurations are available upon request.

Switch state		Contacts diagram	Weight [kg]	Ref. No.
	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 handle (optionally E - red handle)



1/2P	47	106
Layers / poles	H1	H
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

- There are two separate switch contacts or one switch contact and one stopping plug on each layer.
- Max.6 layers/12poles.

Other configurations are available upon request.