



Control panels / stations and switches

for hazardous areas



Table of contents

Configurable [control panels / stations / switches]	29-92	
▶ Cover-mounted components - a quick overview	31	
▶ Arrangement of components on the cover and terminals inside	34	
▶ Selection of cable glands	37	
▶ Cover-mounted components - detailed parameters	38	
▶ Buttons and switches	38	
▶ Illuminated buttons	56	
▶ Indicator lamps	57	
▶ Potentiometers	58	
▶ Ammeters / voltmeters	59	
▶ Warning device (acoustic / acoustic-visual)	60	
Predefined products [control panels]	61-69	
▶ Control station with two elements	62	
▶ Control station with three elements	67	
Predefined products [switches/selector switches]	70-92	
▶ Emergency switches	71	
▶ Momentary switches	72	
▶ Illuminated momentary switches	73	
▶ Control switches	74, 78-89	
▶ Main switches	75-89	
▶ Isolation switches	75-77	
▶ Motor switches	90-92	



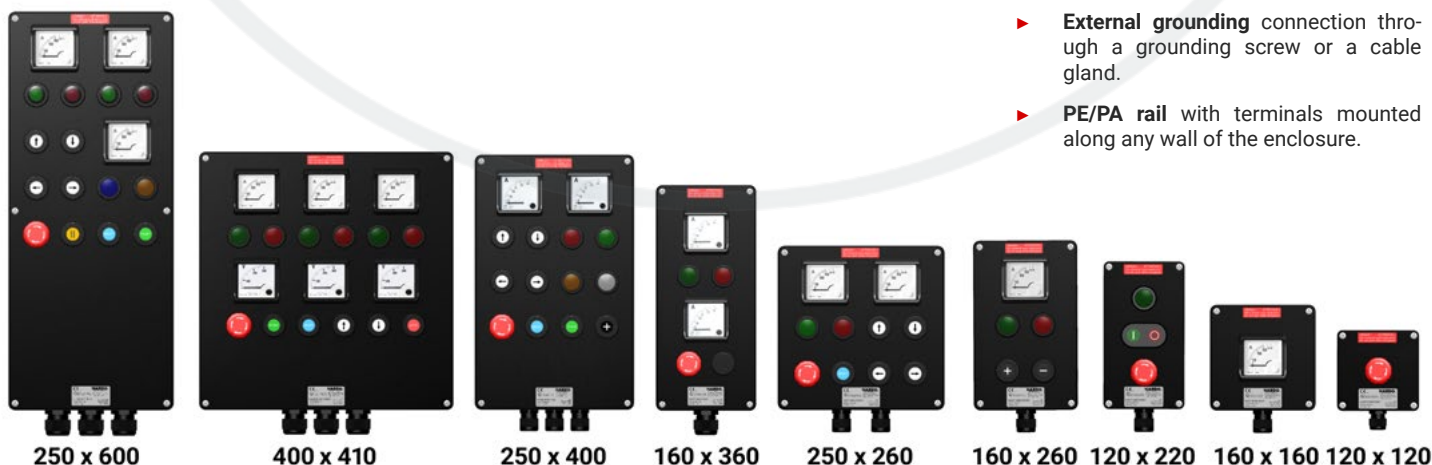
HCS1P series for zones 1/2 and 21/22

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.

Wide selection of enclosures - with up to 9 size options



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.

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

+

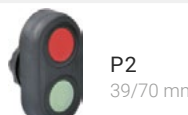


4019/3

/



4019/4

P2
39/70 mm

+



4019/5

P3E
Ø 40 mm

+

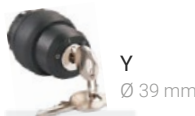


4019/1

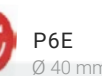
/



4019/2

Y
Ø 39 mmP6B
Ø 40 mm

+

P6E
Ø 40 mm

+



4019/1

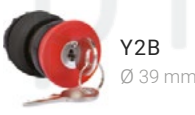
/



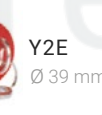
4019/2

P7B
Ø 55 mm

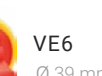
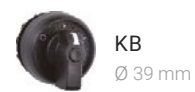
+

P7E
Ø 55 mmY2B
Ø 39 mm

+

Y2E
Ø 39 mmVB6
Ø 39 mm

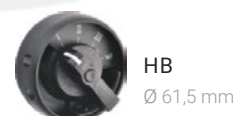
+

VE6
Ø 39 mmKB
Ø 39 mm

+


SE
Ø 61,5 mm

/

SB
Ø 61,5 mmHB
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	● ● ● ● ●

SERIES 0212-6 Ø 39 mm

Ex db eb IIC Gb

Ex ia IIC Ga



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

Indicator lamps

SERIES 0202-7 Ø 39 mm

Ex db eb IIC Gb

Ex ia IIC Ga



Assembly	Cover
Colors	● ● ● ● ●

SERIES 0202-7 Ø 39 mm

Ex db eb IIC Gb

Ex ia IIC Ga



Assembly	DIN rail
Colors	● ● ● ● ●

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%

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%

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

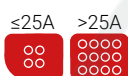


Ex db eb IIC Gb

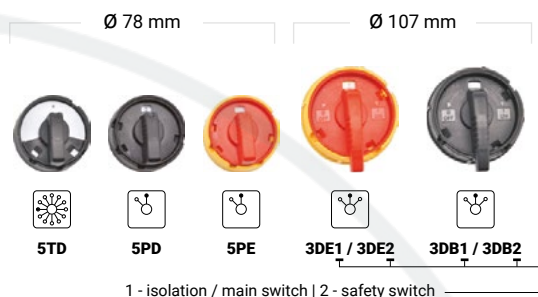
Assembly	DIN rail (left) Cover (right)
Measurement	up to 500 V

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%

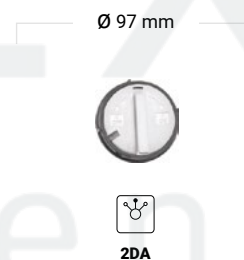


Motor switches

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 mm ²	IP 66

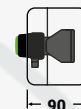


Arrangement of components

Housing: HCS1P 121209



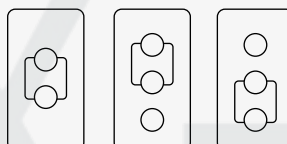
Examples



Housing: HCS1P 122209



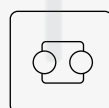
Examples



Housing: HCS1P 161609



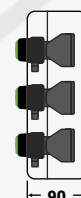
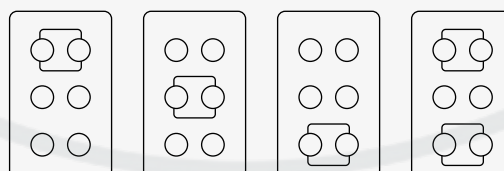
Examples



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)

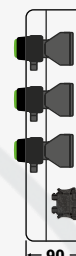
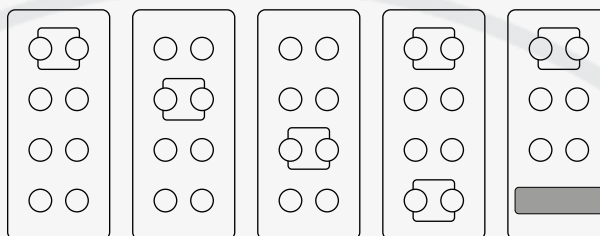
- isolation / main / safety switch 35A, 40A, 63A, 75A, 80A (HCS1P 252616 / 254016 enclosures only)

Arrangement of components

Housing: HCS1P 163609



Examples

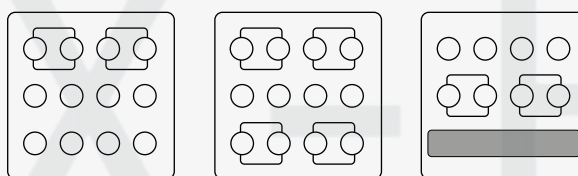


Terminals: 1 x 25 [2.5mm²] or 1 x 21 [4mm²]

Housing: HCS1P 252612 / 252616

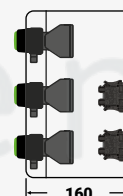
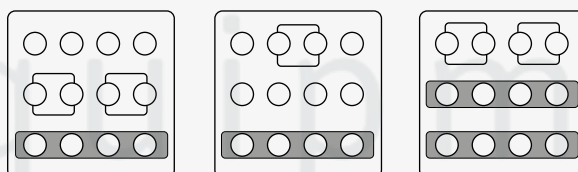


Examples: HCS1P 252612



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

Examples: HCS1P 252616

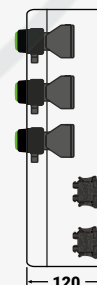
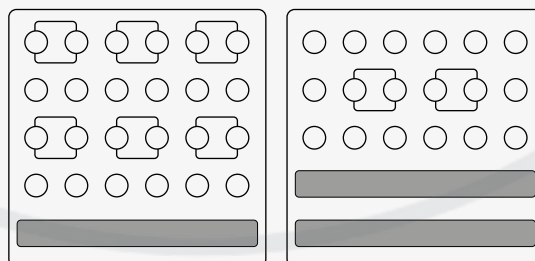


Terminals: 2 x 39 [2.5mm²] or 2 x 32 [4mm²]

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)

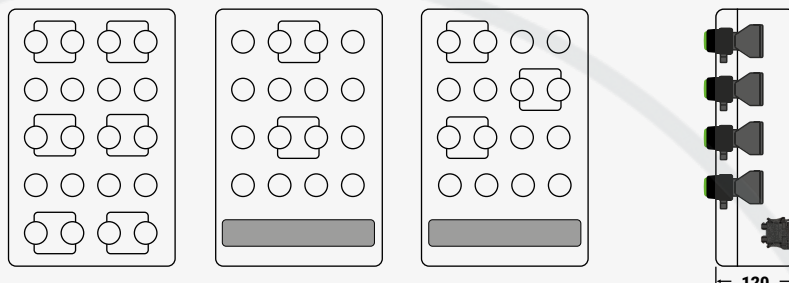
- isolation / main / safety switch 35A, 40A, 63A, 75A, 80A (HCS1P 252616 / 254016 enclosures only)

Arrangement of components

Housing: HCS1P 254012 / 254016

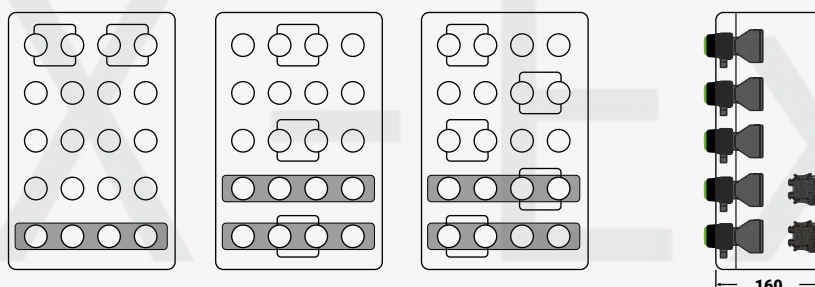


Examples: HCS1P 254012



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

Examples: HCS1P 254016

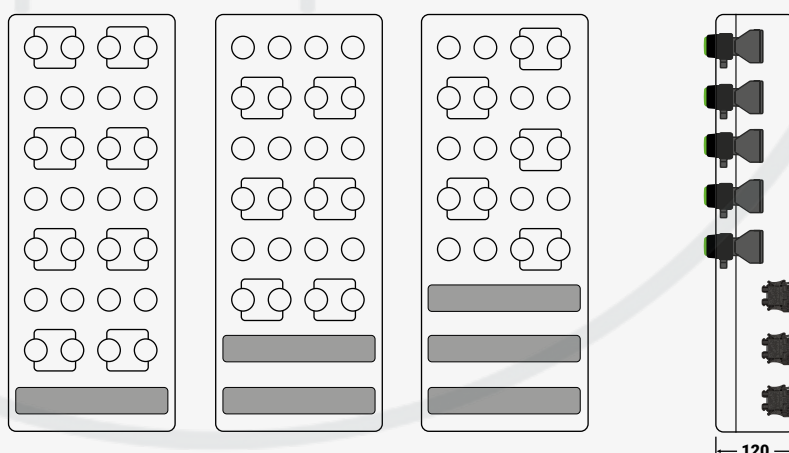


Terminals: 2 x 42 [2.5mm²] or 2 x 35 [4mm²]

Enclosure: HCS1P 256012



Examples



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

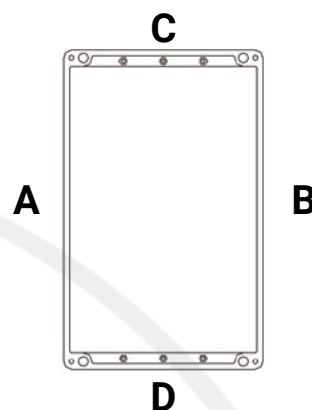
- 2-pole switch or button / double button / indicator light
- 4-pole switch or button
- ammeter / voltmeter
- DIN rail

- 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






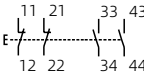
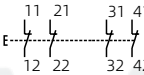
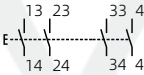
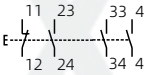
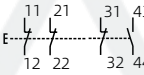
- ▶ internal grounding plate
- ▶ earthing tag

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






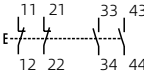
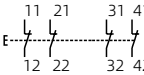
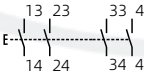
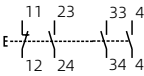
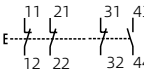
Standard gland ranges, other gland models available on request

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
	0, I, START, STOP	 3NC/1NO	754SL-P100

S - silver plated contacts (optional: G - gold plated contacts)





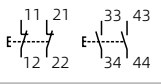

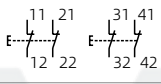
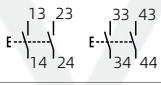
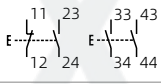
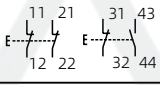
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

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
	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)






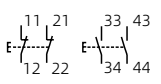
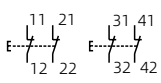
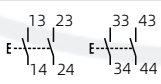
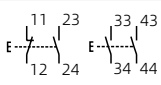
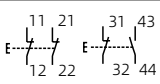
Buttons and switches

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
	0, I, START, STOP	 2NC/2NO	750SL-P200
 4-pole	0, I, START, STOP	 4NC	751SL-P200
	0, I, START, STOP	 4NO	752SL-P200
	0, I, START, STOP	 1NC/3NO	753SL-P200
	0, I, START, STOP	 3NC/1NO	754SL-P200

Ø 39 mm

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
	0, I, START, STOP	 3NC/1NO	654SL-P200

Ø 39 mm

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		70SL-P3E
		71SL-P3E
		72SL-P3E
4-pole		750SL-P3E
		751SL-P3E
		752SL-P3E
		753SL-P3E
		754SL-P3E

S - silver plated contacts (optional: G - gold plated contacts)

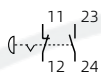
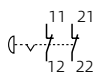
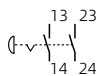
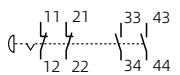
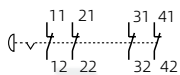
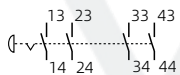
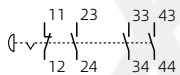
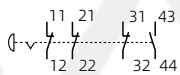
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)

DIN rail mounting	Electrical diagram	Reference number
2-pole		60SL-P3E
		61SL-P3E
		62SL-P3E
4-pole		650SL-P3E
		651SL-P3E
		652SL-P3E
		653SL-P3E
		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)

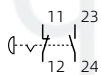
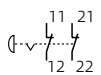
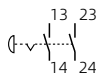
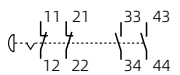
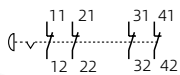
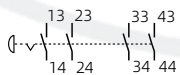
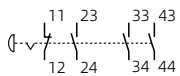
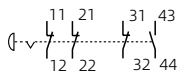
Buttons and switches

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

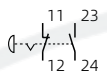
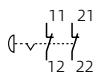
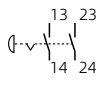
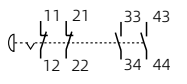
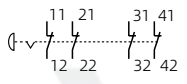
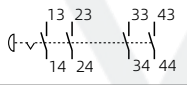
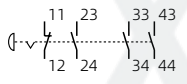
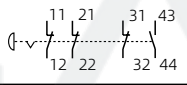
DIN rail mounting	Electrical diagram	Reference number
2-pole	 1NC/1NO	60SL-P6B
	 2NC	61SL-P6B
	 2NO	62SL-P6B
4-pole	 2NC/2NO	650SL-P6B
	 4NC	651SL-P6B
	 4NO	652SL-P6B
	 1NC/3NO	653SL-P6B
	 3NC/1NO	654SL-P6B

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)

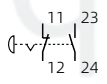
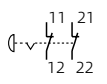
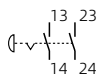
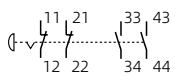
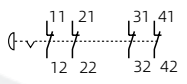
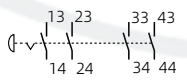
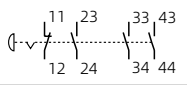
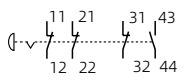
Buttons and switches

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
	 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
	 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
		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)

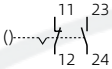
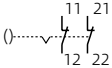
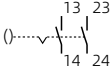
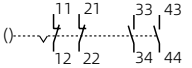
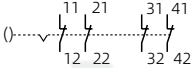
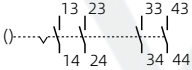
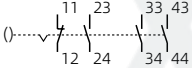
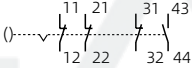
DIN rail mounting	Electrical diagram	Reference number
2-pole		1NC/1NO 60SL-VB6201
		2NC 61SL-VB6201
		2NO 62SL-VB6201
4-pole		2NC/2NO 650SL-VB6201
		4NC 651SL-VB6201
		4NO 652SL-VB6201
		1NC/3NO 653SL-VB6201
		3NC/1NO 654SL-VB6201

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)

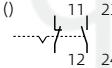
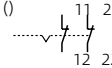
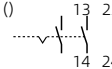
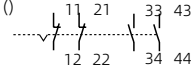
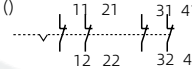
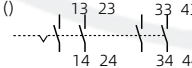
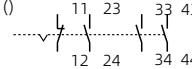
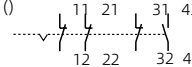
Buttons and switches

Mounting on the cover	Electrical diagram	Reference number
2-pole		1NC/1NO 70SL-Y222B
		2NC 71SL-Y222B
		2NO 72SL-Y222B
4-pole		0 2NC/2N 750SL-Y222B
		4NC 751SL-Y222B
		4NO 752SL-Y222B
		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)

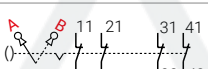

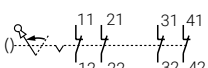
DIN rail mounting	Electrical diagram	Reference number
2-pole		1NC/1NO 60SL-Y22B
		2NC 61SL-Y22B
		2NO 62SL-Y22B
4-pole		2NC/2NO 650SL-Y22B
		4NC 651SL-Y22B
		4NO 652SL-Y22B
		1NC/3NO 653SL-Y22B
		3NC/1NO 654SL-Y22B

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		 1NC/1NO	70SL-Y62GS01
		 2NC	71SL-Y62GS01
		 2NO	72SL-Y62GS01
 4-pole		 1NC/1NO	70SL-Y32GS10
		 2NC	71SL-Y32GS10
		 2NO	72SL-Y32GS10
		 2NC/2NO	750SL-Y62GS01
		 4NC	751SL-Y62GS01
		 4NO	752SL-Y62GS01
		 1NC/3NO	753SL-Y62GS01
		 3NC/1NO	754SL-Y62GS01
		 2NC/2NO	750SL-Y32GS10
 Ø 39 mm		 4NC	751SL-Y32GS10
		 4NO	752SL-Y32GS10
		 1NC/3NO	753SL-Y32GS10

LEGEND

 Key remains in position

 Key returns to initial position

 Key removable position



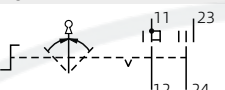


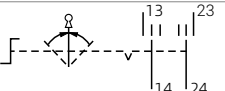


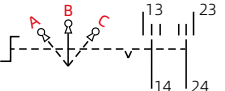


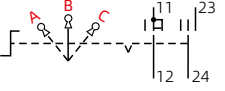



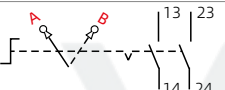


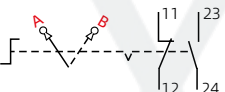


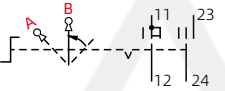


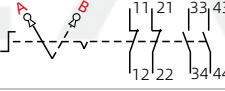



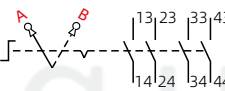


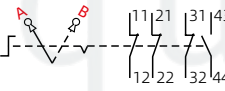


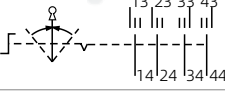


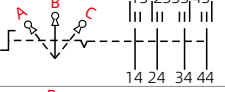





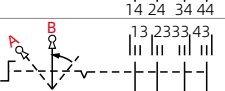


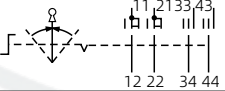


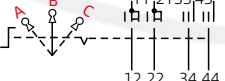

A, B, C Key cannot be removed (optional)

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



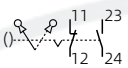

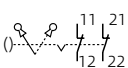

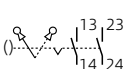


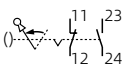

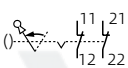

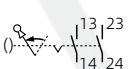

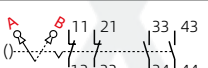

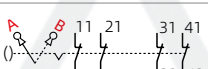

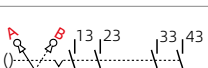

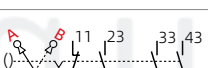

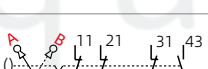

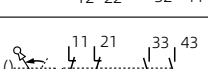

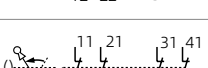


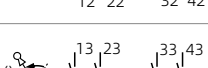

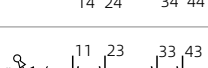
Mounting on the cover	Symbols	Electrical diagram		Reference number
 2-pole				70SL-Y42GS04
				72SL-Y42GS04
				72SL-Y52GS04
				70SL-Y52GS03
 4-pole				72SL-Y62GS01
				70SL-Y62GS02
				70SL-Y82GS05
				750SL-Y62GS02
 Ø 39 mm				752SL-Y62GS01
				754SL-Y62GS01
				752SL-Y42GS04
				752SL-Y52GS04
LEGEND  Key remains in position  Key returns to initial position  Key removable position A, B, C Key cannot be removed (optional)				752SL-Y82GS04
				750SL-Y42GS03
				750SL-Y52GS03

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		 1NC/1NO	60SL-Y62GS01
		 2NC	61SL-Y62GS01
		 2NO	62SL-Y62GS01
 4-pole		 1NC/1NO	60SL-Y32GS10
		 2NC	61SL-Y32GS10
		 2NO	62SL-Y32GS10
		 2NC/2NO	650SL-Y62GS01
		 4NC	651SL-Y62GS01
		 4NO	652SL-Y62GS01
		 1NC/3NO	653SL-Y62GS01
		 3NC/1NO	654SL-Y62GS01
		 2NC/2NO	650SL-Y32GS10
		 4NC	651SL-Y32GS10
 Ø 39 mm		 4NO	652SL-Y32GS10
		 1NC/3NO	653SL-Y32GS10

LEGEND



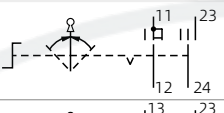

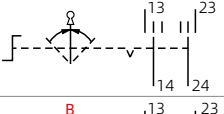

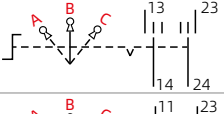

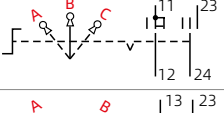


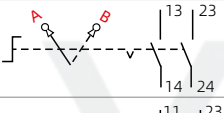

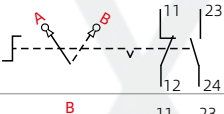

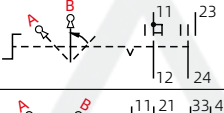

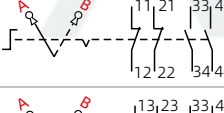

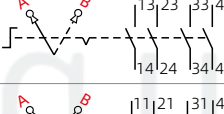

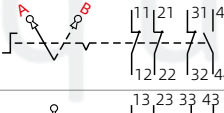

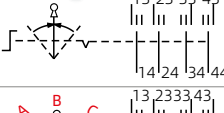

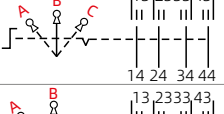




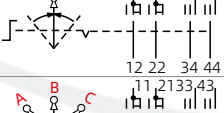

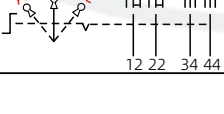

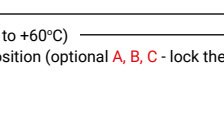
-  Key remains in position
-  Key returns to initial position
-  Key removable position
- A,B,C Key cannot be removed (optional)

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			60SL-Y42GS04
			62SL-Y42GS04
			62SL-Y52GS04
			60SL-Y52GS03
 4-pole			62SL-Y62GS01
			60SL-Y62GS02
			60SL-Y82GS05
			650SL-Y62GS02
			652SL-Y62GS01
			654SL-Y62GS01
			652SL-Y42GS04
			652SL-Y52GS04
 4-pole			652SL-Y82GS04
			650SL-Y42GS03
			650SL-Y52GS03
			650SL-Y52GS03

Ø 39 mm

LEGEND



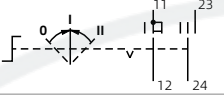

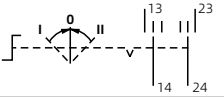

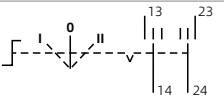

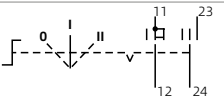




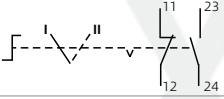

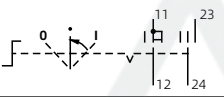

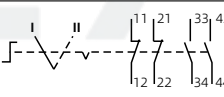






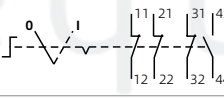

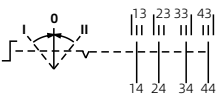

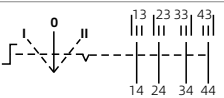

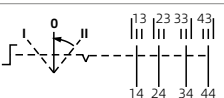

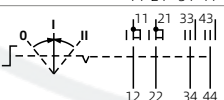

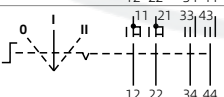

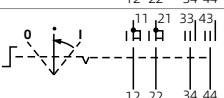
-  Key remains in position
-  Key returns to initial position
-  Key removable position
-  Key cannot be removed (optional)

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			70SL-KB4203
			72SL-KB4204
			72SL-KB5204
			70SL-KB5203
 4-pole			72SL-KB6201
			70SL-KB6202
			70SL-KB8205
			750SL-KB6202
 <div> LEGEND  Key remains in position  Key returns to initial position </div>			752SL-KB6201
			754SL-KB6201
			752SL-KB4204
			752SL-KB5204
			752SL-KB8204
			750SL-KB4203
			750SL-KB5203
			750SL-KB8205

S - silver plated contacts (optional: G - gold plated contacts)

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



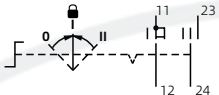


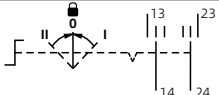


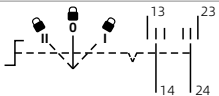


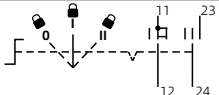






















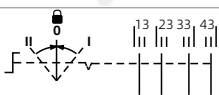


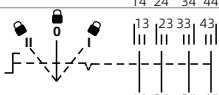



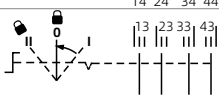


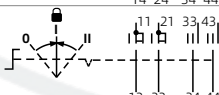


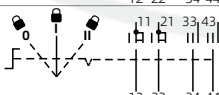


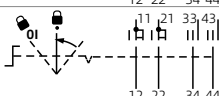

Buttons and switches

Mounting on the cover	Symbols	Electrical diagram	Reference number
 2-pole			60SL-KB4203
			62SL-KB4204
			62SL-KB5204
			60SL-KB5203
 4-pole			62SL-KB6201
			60SL-KB6202
			60SL-KB8205
			650SL-KB6202
 4-pole Ø 39 mm			652SL-KB6201
			654SL-KB6201
			652SL-KB4204
			652SL-KB5204
			652SL-KB8204
			650SL-KB4203
			650SL-KB5203
			650SL-KB8205
			650SL-KB4203
			650SL-KB5203
LEGEND  Key remains in position  Key returns to initial position			650SL-KB4203
			650SL-KB5203
			650SL-KB8205

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				70SL-SB4203
				72SL-SB4204
				72SL-S5B204
				70SL-SB5203
 4-pole				72SL-SB6201
				70SL-SB6202
				70SL-SB8205
				750SL-SB6202
 4-pole				752SL-SB6201
				754SL-SB6201
				752SL-SB4204
				752SL-SB5204
 4-pole				752SL-SB8204
				750SL-SB4203
				750SL-SB5203
				750SL-SB8205


Ø 61,5 mm


LEGEND


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

Ø 61,5 mm

LEGEND

 Key remains in position



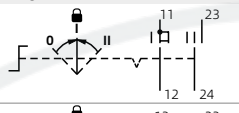


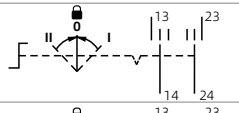
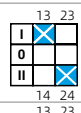

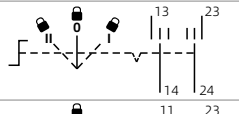
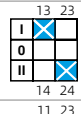

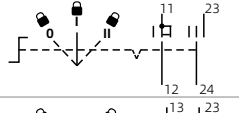
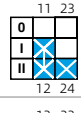


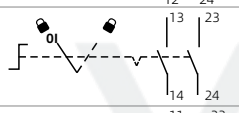
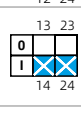

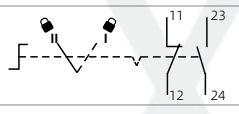
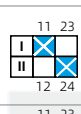

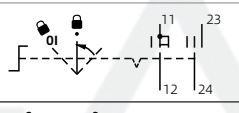
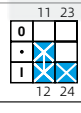

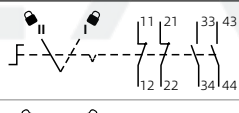
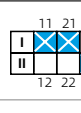


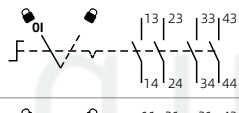
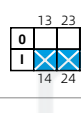

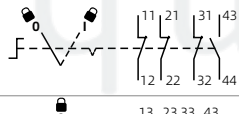
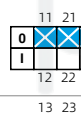


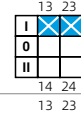


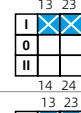





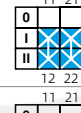




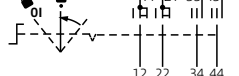




 Key returns to initial position

 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)






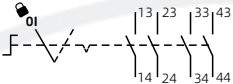
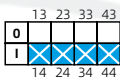

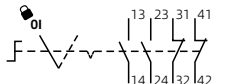
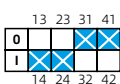

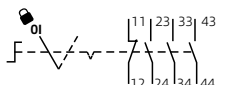
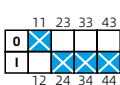

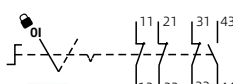
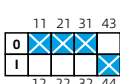


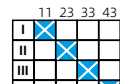

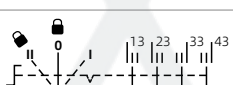


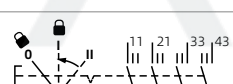


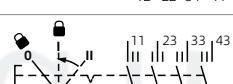





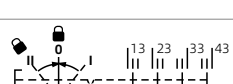
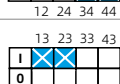

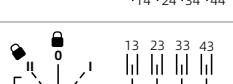
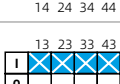




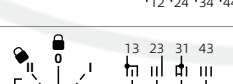


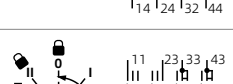
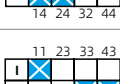
Buttons and switches

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


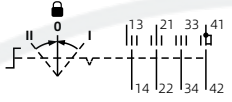
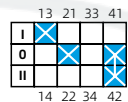
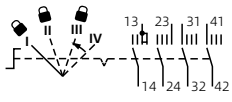
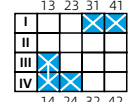
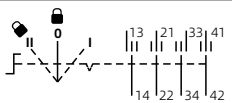
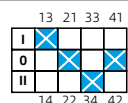
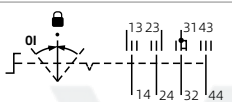
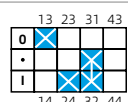
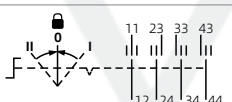
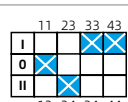

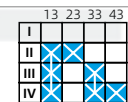
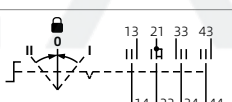
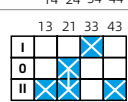
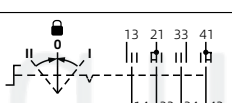
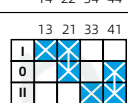

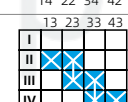
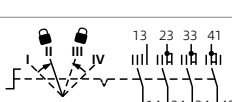
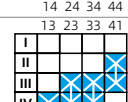

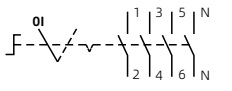
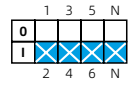

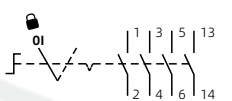
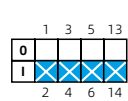
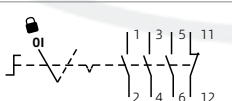
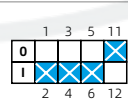



Buttons and switches

Mounting on the cover	Symbols	Electrical diagram	Reference number
 <p>Control switch</p> <p>Ø 61,5 mm</p> <p>LEGEND</p> <p> Key remains in position</p> <p> Key returns to initial position</p> <p> Padlock hole</p>		 	H601SL-HB3201
		 	H602SL-HB3201
		 	H603SL-HB3201
		 	H604SL-HB3201
		 	H605SL-HB4204
		 	H606SL-HB3203
		 	H607SL-HB3202
		 	H608SL-HB3202
		 	H609SL-HB4205
		 	H610SL-HB3203
		 	H611SL-HB3203
		 	H612SL-HB4204
		 	H613SL-HB3203
		 	H614SL-HB3203

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
	I O II	 	H618SL-HB3203
	I III IV	 	H626SL-HB4204
	I O II	 	H631SL-HB3203
	0 • I	 	H637SL-HB3205
	I O II	 	H650SL-HB3203
	I III IV	 	H646SL-HB4204
	I O II	 	H656SL-HB3203
	I O II	 	H659SL-HB3203
	I III IV	 	H660SL-HB4204
	I III IV	 	H668SL-HB4204
 Ø 61,5 mm	0 I	 	H697SL-HB3201
 Ø 61,5 mm	0 I	 	H698SL-HB3201
	0 I	 	H699SL-HB3201
 Key remains in position  Key returns to initial position  Padlock hole			

S - silver plated contacts (optional: G - gold plated contacts)



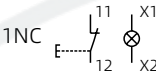
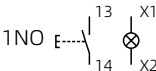
L - ambient temp. -40 to +60°C (optional: H - ambient temp. -55 to +60°C)


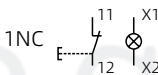

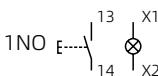
Buttons and switches

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  Ex db eb IIC Gb Ø 39 mm	 1NC	Ex ia IIC Ga	10V - 2.8V AC/DC	7300H-P□
		Ex db eb IIC Gb	10V - 2.8V AC/DC	7303L-P□
			20V - 2.50V AC/DC	7301L-P□
			100V - 277V AC/DC	7304L-P□
	 1NO	Ex ia IIC Ga	10V - 2.8V AC/DC	7400H-P□
		Ex db eb IIC Gb	10V - 2.8V AC/DC	7403L-P□
			20V - 2.50V AC/DC	7401L-P□
			100V - 277V AC/DC	7404L-P□
<p>L - ambient temp. -40 to +60°C (Optional: H - ambient temp. -55 to +60°C, possibility to change only from L to H)</p> <p>● R - red ● G - green ● Y - yellow ● B - blue ○ W - white</p>				


Mounting on the cover	Electrical diagram	Protection	Power supply lamps	Reference number
 Ex ia IIC Ga		Ex ia IIC Ga	10V - 2.8V AC/DC	6300H-P□
		Ex db eb IIC Gb	10V - 2.8V AC/DC	630L-P□
			20V - 2.50V AC/DC	6301L-P□
			100V - 277V AC/DC	6304L-P□
 Ex db eb IIC Gb		Ex ia IIC Ga	10V - 2.8V AC/DC	6400H-P□
		Ex db eb IIC Gb	10V - 2.8V AC/DC	6403L-P□
			20V - 2.50V AC/DC	6401L-P□
			100V - 277V AC/DC	6404L-P□
<div>L - ambient temp. -40 to +60°C (Optional: H - ambient temp. -55 to +60°C, possibility to change only from L to H)</div> <div><div><div>● R - red</div><div>● G - green</div><div>● Y - yellow</div><div>● B - blue</div><div>○ W - white</div></div><div></div></div>				
Ø 39 mm				

Indicator lamps

Mounting on the cover	Color lamps	Power supply lamps	Protection	Reference number
	<ul style="list-style-type: none"> ● 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
 Ø 39 mm	<ul style="list-style-type: none"> ● 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
	<ul style="list-style-type: none"> ● 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
	<ul style="list-style-type: none"> ● 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
 Ø 39 mm	<ul style="list-style-type: none"> ● 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
 Ø 39 mm	<ul style="list-style-type: none"> ● 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
	<ul style="list-style-type: none"> ● 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
	<ul style="list-style-type: none"> ● 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



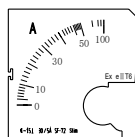
M2

Counterframe with label



M1

Scales



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

Voltmeters



70x70 mm

Scope

- 0-25V
- 0-40V
- 0-150V
- 0-250V
- 0-500V

Protection

Ex emb II C Gb

Reference number

- 7V25-M1
- 7V40-M1
- 7V150-M1
- 7V250-M1
- 7V500-M1

7 - cover mounting (optional: 6 - DIN rail mounting)

M1 - counterframe without label (optional: M2 - counterframe with label)

Milliammeters



70x70 mm

Scope

- 0-20/40mA
- 4-20//40mA

Protection

Ex emb II C Gb

Reference number

- 7mA11 -M1
- 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



70x70 mm

For current transformer



- | | |
|---------------|---------------|
| 0-1 / 2A | 7A1-M1 |
| 0-5 / 10A | 7A5-M1 |
| 0-10 / 20A | 7A10-M1 |
| 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 |
| 0-600 / 1200A | 7A600 / 12-M1 |

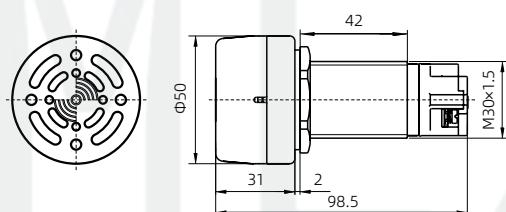
7 - cover mounting (optional: 6 - DIN rail mounting)

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	2×2.5mm ²

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



[p. 62](#)



[p. 63](#)



[p. 64](#)



[p. 65](#)



[p. 66](#)

Control panels with three elements



[p. 67](#)




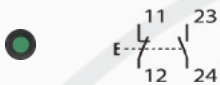
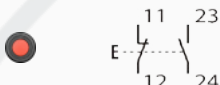
[p. 68](#)



[p. 69](#)

Control panel with two elements

Predefined products


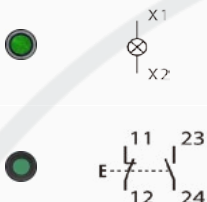
Photo	Electrical diagram	Description	Cable glands	Order No
		green button with self-return, 1NO + 1NC	1 x M25	HCS1P 122209 S20001
		red button with self-return, 1NO + 1NC		

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	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


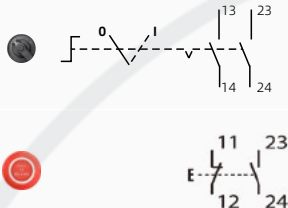
Photo	Electrical diagram	Description	C a b l e glands	Order No
		double button (green/red) with self-return, 1NO + 1NC	1 x M25	HCS1P 122209 S20003
	mushroom button (emergency stop), pull-to-release, 1NO + 1NC			

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	Ⓔ II 2 G Ex db eb IIC/IIB T6...T4 Gb Ⓔ 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


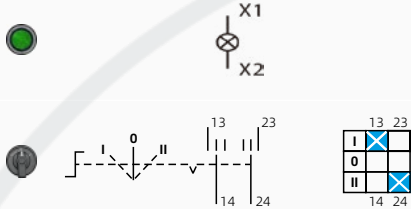
Photo	Electrical diagram	Description	Cable glands	Order No
		control switch, 2 stable positions, 2NO, description: 0 - I mushroom button (emergency stop), pull-to-release, 1NO + 1NC	1 x M25	HCS1P 122209 S20004

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	Ⓔ II 2 G Ex db eb IIC/IIB T6...T4 Gb Ⓔ 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



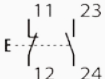
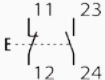
Photo	Electrical diagram	Description	C a b l e glands	Order No
		green indicator light mushroom button (emergency stop), pull-to-release, 1NO + 1NC	1 x M25	HCS1P 122209 S20005

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	C a b l e glands	Order No
		green indicator light	1 x M25	HCS1P 122209 S30001
		green button with self-return, 1NO + 1NC		
		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	Ⓔ II 2 G Ex db eb IIC/IIB T6...T4 Gb Ⓔ 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 mm²

Control panel with three elements

Predefined products




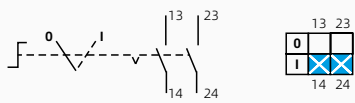
Photo	Electrical diagram	Description	C a b l e glands	Order No
		green indicator light	1 x M25	HCS1P 122209 S30002
		double button (green/red) with self-return, 1NO + 1NC		
		mushroom button (emergency stop), pull-to-release, 1NO + 1NC		

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	Ⓔ II 2 G Ex db eb IIC/IIB T6...T4 Gb Ⓔ 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 mm²

Control panel with three elements

Predefined products

Photo	Electrical diagram	Description	C a b l e glands	Order No
		green indicator light	1 x M25	HCS1P 122209 S30003
		double button (green/red) with self-return, 1NO + 1NC		
		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	Ⓔ II 2 G Ex db eb IIC/IIB T6...T4 Gb Ⓔ 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 mm²

HCS1P Series for Zones 1/2 and 21/22

Switches / selector switches for hazardous areas




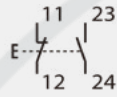

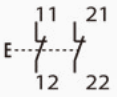

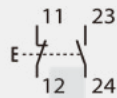

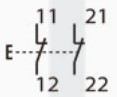

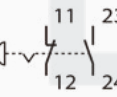

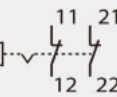
Design features

- ▶ **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


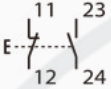

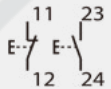
Emergency switches

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)	Ⓔ II 2 G Ex db eb IIC/IIB T6...T4 Gb Ⓔ 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 mm²			

Momentary switches

Predefined products

Photo	Electrical diagram	Description	Cable glands	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)	Ⓔ II 2 G Ex db eb IIC/IIB T6...T4 Gb Ⓔ 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








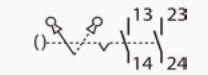
Photo	Electrical diagram	Description	Cable glands	Order No
	1NO	1 x illuminated push button colour: ● red	1 x M25	HCS1P 121209 S10301
	1NO	1 x illuminated push button colour: ● green	1 x M25	HCS1P 121209 S10302
	1NO	1 x illuminated push button colour: ● yellow	1 x M25	HCS1P 121209 S10303
	1NO	1 x illuminated 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)	Ⓔ II 2 G Ex db eb IIC/IIB T6...T4 Gb Ⓔ 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 mm²

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)	Ⓔ II 2 G Ex db eb IIC/IIB T6....T4 Gb Ⓔ 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