

General Data

Type Reference:	ET...
Description:	Contact Block, positive opening contact
Approvals:	CE, CSA, UL
Protection class:	II (protective insulation)
Operation travel:	6 mm
Connection type:	screw connection, finger-protected acc. to VBG4
Contact material:	AgNi
Max. storage temperature:	-50°C ... 70°C
Max. operating temperature:	-30°C ... 70°C, without illumination -30°C ... 55°C, using incandescent lamps -30°C ... 65°C, using LEDs
Mechanical life:	1 m switching cycles
Electrical life (rated load):	1 m at 250 V/10(6) A 250,000 at 250 V/16(10) A 500,000 at 250 V/5 A (AC15)
Contact resistance NO:	< 20 mOhm (new state)
Contact resistance NC:	< 20 mOhm (new state)
Min. current:	1 mA (under laboratory conditions)
Min. voltage:	5 V
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms
Positive opening contact:	acc. to EN60947-5-1, appendix. K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

Utilisation category:	alternate current	direct current
Rated insulation voltage U_i :	AC15	DC13
Rated operating voltage U_e :	400V	400V
Rated operating current I_e :	250V / 400V	400V / 250V / 125V / 60V / 24V
Breaking capacity:	5A / 3A	0.12A / 0.2A / 0.4A / 1A / 2A
Continuous thermal current:	10I _e	1,1I _e
	10A	

Electrical data acc. to IEC/EN 61058-1 (VDE 0630 Sect. 1)

Rated voltage U_e :	250 V~ / 440 V~
Rated current I_e :	10(6) A / 6(3) A

Technical Data - Lamp

Lamp socket:	BA9s
Max. lamp voltage:	250 V / (CSA max. 150V)
Max. lamp output:	2 W
Definition:	X1...anode, X2...cathode

Electrical Features

Operational voltage:	20mV ... 42V AC/DC
Operational current:	1 mA ... 250 mA
Contact resistance (new state):	< 50 mOhm

Note

Note for emergency-stop contact blocks:

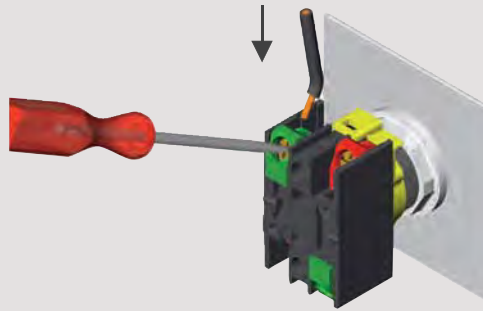
In case of inverters of the Za form (in terms of EN 60947-5-1), only the NC contact must be used for the remotely controlled safety circuit.

Mounting Instructions

1.



2.



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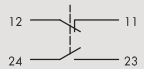


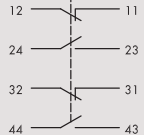


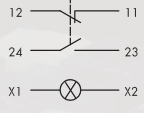
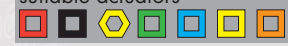

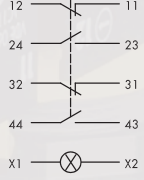



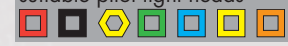


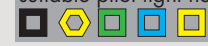

Enclosures

Terminal Blocks

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Illustration	Description	Type
 <p>6 mm</p> <p>12/11 24/23</p> <p>0 1 2 3 4 5 6</p> 	<p>Contact Block, momentary 1NC + 1NO screw connection, finger-protected acc. to VBG4</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	ETR
 <p>6 mm</p> <p>12/11 24/23 32/31 44/43</p> <p>0 1 2 3 4 5 6</p> 	<p>Contact Block, momentary 2NC+2NO screw connection, finger-protected acc. to VBG4</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	ETR2
 <p>6 mm</p> <p>X1</p> <p>12/11 24/23</p> <p>0 1 2 3 4 5 6</p> 	<p>Illuminated Contact Block, momentary 1NC + 1NO screw connection, finger-protected acc. to VBG4 lamp socket BA9s</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	ETLR
 <p>6 mm</p> <p>X1</p> <p>12/11 24/23 32/31 44/43</p> <p>0 1 2 3 4 5 6</p> 	<p>Illuminated Contact Block, momentary 2NC+2NO screw connection, finger-protected acc. to VBG4 lamp socket BA9s</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	ETLR2
 <p>X1</p> 	<p>Lampholder BA9s screw connection lamp socket BA9s</p> <p>suitable pilot light heads</p>  <p>colour black</p>	EL9R
 <p>X1</p> 	<p>Lampholder screw connection max. 250V 2W lamp socket BA9s</p> <p>suitable pilot light head</p>  <p>colour white</p>	L9R
	<p>Ultra-bright LED, BA9s socket with integrated bridge rectifier for 24V AC/DC, 15mA</p> <p>colour white</p>	LD9-24UW

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screw connection, finger-protected acc. to VBG4

made in germany



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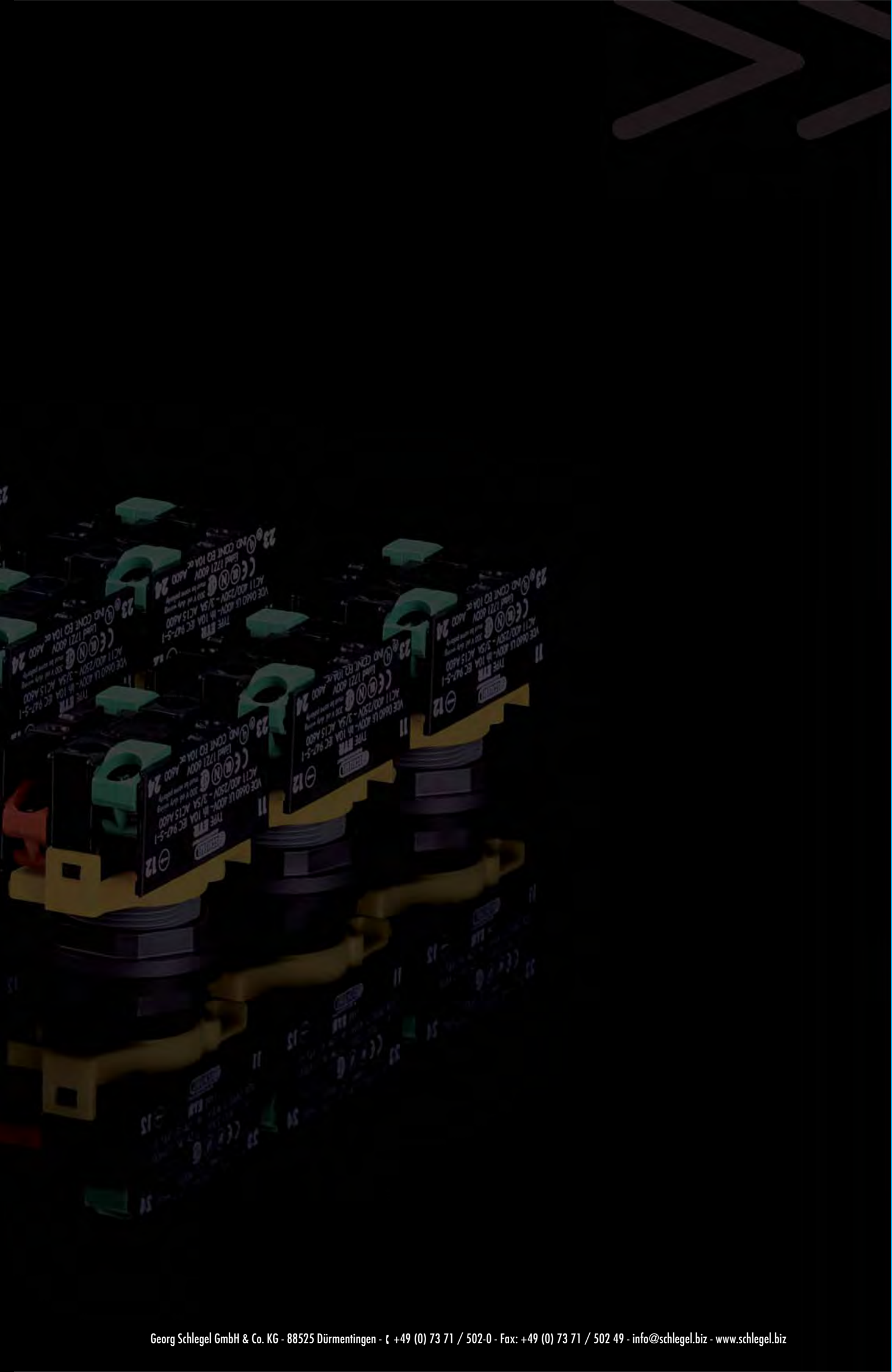
Pedal Switches

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Illustration	Description	Type
	Mega-bright LED, BA9s with integrated bridge rectifier for 24V .. 28V AC/DC, 15.5mA (typ. 24V) colour white	LD9-24MW
	Ultra-bright LED, BA9s with integrated single-wave rectifier for 230V AC, 3mA colour white	LD9-230UW
	Flashing LED, BA9s for 24V colour green red yellow	LB9-24G LB9-24R LB9-24Y





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