



General Data

Type Reference:	ET...
Description:	Contact block, positive opening contact
Approvals:	CE, CSA, GOST-R, UkrSepro, 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 LED's
Mechanical life:	1m operations
Electrical life (rated load):	1m at 250V/10(6)A 250.000 at 250V/16(10)A 500.000 at 250V/5A (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)

	alternate current	direct current
Utilisation category:	AC15	DC13
Rated insulation voltage Ui:	400V	400V
Rated operating voltage Ue:	400V / 250V	400V / 250V / 125V / 60V / 24V
Rated operating current Ie:	3 A / 5A	0.12A / 0.2A / 0.4A / 1A / 2A
Breaking capacity:	10Ie	1.1Ie
Continuous thermal current:	10A	10A

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

Rated voltage Ue:	250 V~ / 440 V~
Rated current Ie:	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:	1mA ... 250mA
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

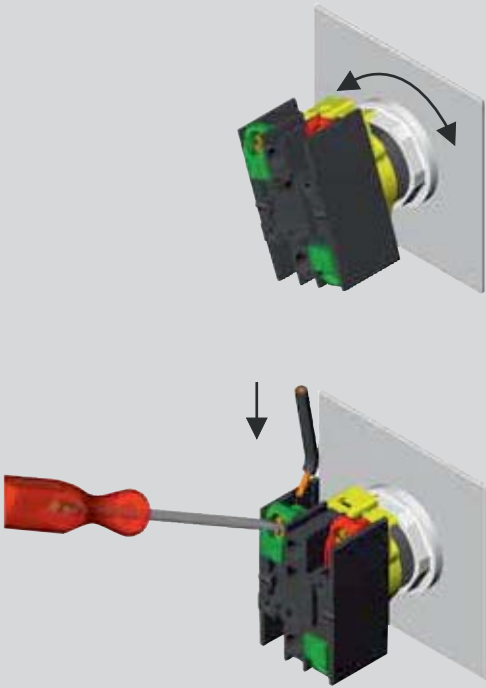

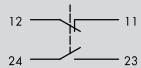
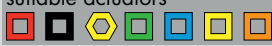

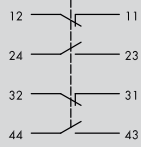

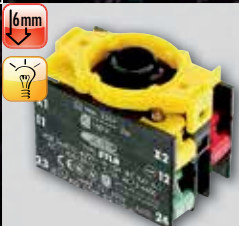
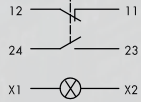


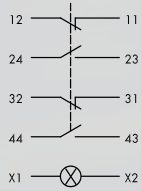






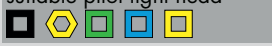


Illustration	Description	Type
 <p>6mm</p> <p>0 1 2 3 4 5 6</p> <p>12/11 24/23</p> 	<p>Contact Block, momentary 1NC + 1NO screw connection, finger-protected acc. to VBG4</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	<p>ETR</p>
 <p>6mm</p> <p>0 1 2 3 4 5 6</p> <p>12/11 24/23 32/31 44/43</p> 	<p>Contact Block, momentary 2NC + 2NO screw connection, finger-protected acc. to VBG4</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	<p>ETR2</p>
 <p>6mm</p> <p>0 1 2 3 4 5 6</p> <p>12/11 24/23</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>	<p>ETLR</p>
 <p>6mm</p> <p>0 1 2 3 4 5 6</p> <p>12/11 24/23 32/31 44/43</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>	<p>ETLR2</p>
 <p>6mm</p> 	<p>Lampholder BA9s screw connection lamp socket BA9S</p> <p>suitable pilot light heads</p>  <p>colour black</p>	<p>EL9R</p>
 <p>6mm</p> 	<p>Lampholder screw connection max. 250V 2W lamp socket BA9S</p> <p>suitable pilot light head</p>  <p>colour white</p>	<p>L9R</p>

Contact Blocks

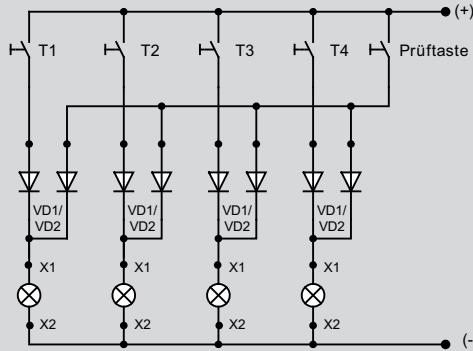
screw connection, finger-protected acc. to VBG4

Illustration	Description	Type
	<p>Ultra-bright LED BA9s with integrated bridge rectifier for 24V AC/DC, 15mA</p> <p>colour</p>	<p>LD9-24UB (blue) LD9-24UG (green) LD9-24UR (red) LD9-24UW (white) LD9-24UY (yellow)</p>
	<p>Mega-bright LED, BA9s with integrated bridge rectifier for 24V .. 28V AC/DC, 15.5mA</p> <p>colour</p>	<p>LD9-24MB (blue) LD9-24MG (green) LD9-24MR (red) LD9-24MW (white) LD9-24MY (yellow)</p>
	<p>Ultra-bright LED, BA9s with integrated single-wave rectifier for 230V AC, 3mA</p> <p>colour</p>	<p>LD9-230UB (blue) LD9-230UG (green) LD9-230UR (red) LD9-230UW (white) LD9-230UY (yellow)</p>
	<p>Flashing LED, BA9s for 24V</p> <p>colour</p>	<p>LB9-24G (green) LB9-24R (red) LB9-24Y (yellow)</p>
	<p>Incandescent Lamp BA9s</p> <p>Technical Data</p>	<p>FZR9-12 (12V / 2,0W (166mA)) FZR9-24 (24V / 2,0W (80mA)) FZR9-30 (30V / 2,0W (66mA)) FZR9-36 (36V / 2,0W (55mA)) FZR9-48 (48V / 2,0W (40mA)) FZR9-60-1 (60V / 1,2W (20mA)) FZR9-130 (110 ... 130V / 2,6W (20mA))</p>

Illustration

Description

Type



DC Lamp Testing Unit

entirely sealed, with two screw connections for 2.5 mm², with two integrated diodes 400 V/1A isolating the lamp line from the test line. For DC only.

VD2

