



## 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

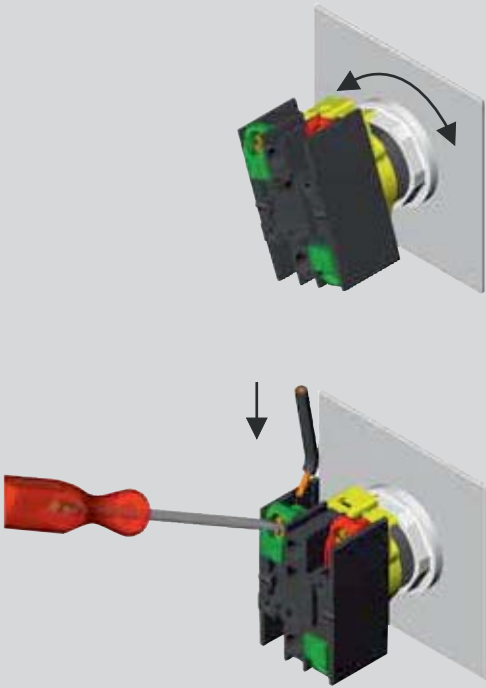

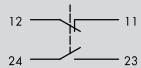
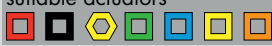

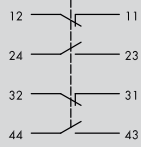

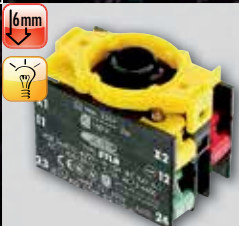
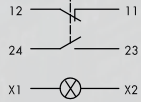


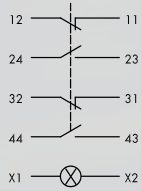






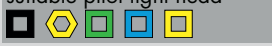


Illustration	Description	Type
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>12/11 24/23</p> 	<p><b>Contact Block, momentary 1NC + 1NO</b> screw connection, finger-protected acc. to VBG4</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	ETR
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>12/11 24/23 32/31 44/43</p> 	<p><b>Contact Block, momentary 2NC + 2NO</b> screw connection, finger-protected acc. to VBG4</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	ETR2
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>12/11 24/23</p> 	<p><b>Illuminated Contact Block, momentary 1NC + 1NO</b> screw connection, finger-protected acc. to VBG4 lamp socket BA9S</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	ETLR
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>12/11 24/23 32/31 44/43</p> 	<p><b>Illuminated Contact Block, momentary 2NC + 2NO</b> screw connection, finger-protected acc. to VBG4 lamp socket BA9S</p> <p>suitable actuators</p>  <p>contact material AgNi</p>	ETLR2
 <p>16mm</p> 	<p><b>Lampholder BA9s</b> screw connection lamp socket BA9S</p> <p>suitable pilot light heads</p>  <p>colour black</p>	EL9R
 	<p><b>Lampholder</b> screw connection max. 250V 2W lamp socket BA9S</p> <p>suitable pilot light head</p>  <p>colour white</p>	L9R

# Contact Blocks

screw connection, finger-protected acc. to VBG4

Illustration

Description

Type



### Ultra-bright LED BA9s

with integrated bridge rectifier for 24V AC/DC, 15mA

colour	blue	<b>LD9-24UB</b>
	green	<b>LD9-24UG</b>
	red	<b>LD9-24UR</b>
	white	<b>LD9-24UW</b>
	yellow	<b>LD9-24UY</b>



### Mega-bright LED, BA9s

with integrated bridge rectifier for 24V .. 28V AC/DC, 15.5mA

colour	blue	<b>LD9-24MB</b>
	green	<b>LD9-24MG</b>
	red	<b>LD9-24MR</b>
	white	<b>LD9-24MW</b>
	yellow	<b>LD9-24MY</b>



### Ultra-bright LED, BA9s

with integrated single-wave rectifier for 230V AC, 3mA

colour	blue	<b>LD9-230UB</b>
	green	<b>LD9-230UG</b>
	red	<b>LD9-230UR</b>
	white	<b>LD9-230UW</b>
	yellow	<b>LD9-230UY</b>



### Flashing LED, BA9s

for 24V

colour	green	<b>LB9-24G</b>
	red	<b>LB9-24R</b>
	yellow	<b>LB9-24Y</b>



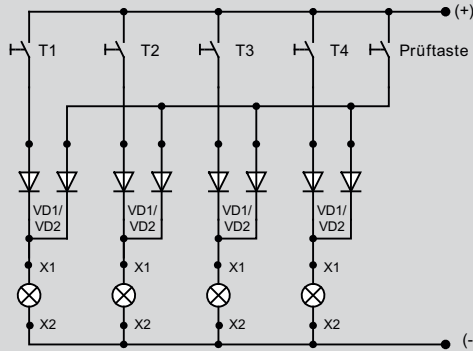
### Incandescent Lamp BA9s

Technical Data	12V / 2,0W (166mA)	<b>FZR9-12</b>
	24V / 2,0W (80mA)	<b>FZR9-24</b>
	30V / 2,0W (66mA)	<b>FZR9-30</b>
	36V / 2,0W (55mA)	<b>FZR9-36</b>
	48V / 2,0W (40mA)	<b>FZR9-48</b>
	60V / 1,2W (20mA)	<b>FZR9-60-1</b>
	110 ... 130V / 2,6W (20mA)	<b>FZR9-130</b>

Illustration

Description

Type



### DC Lamp Testing Unit

entirely sealed, with two screw connections for 2.5 mm<sup>2</sup>, with two integrated diodes 400 V/1A isolating the lamp line from the test line. For DC only.

**VD2**

