



General Data

Type Reference:	B..._439
Description:	Contact Block
Approvals:	CCC, CE
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	Faston terminals 2.8x0.8 mm / PCB-mount terminals
Contact material:	AgNi
Max. storage temperature:	-50°C ... 85°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
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:	< 20ms

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

Rated insulation voltage U_i :	alternate current	direct current
Rated operating voltage U_e :	60V	60V
Rated operating current I_e :	60V~	60V(ind.) / 60V (R) / 50V(R) / 40V(R)
Continuous thermal current:	3A (inductive)	1A / 3A / 4A / 5A
	6 A	

Technical Data - Lamp

Lamp socket:	T5,5K / W2x4,6d
Max. lamp voltage:	60V
Max. lamp output:	1.2W
Definition:	X1...anode, X2...cathode

Electrical Features

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

Additional Electrical Data

Overvoltage category:	II
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Note

BZ..._439 with two-piece plunger

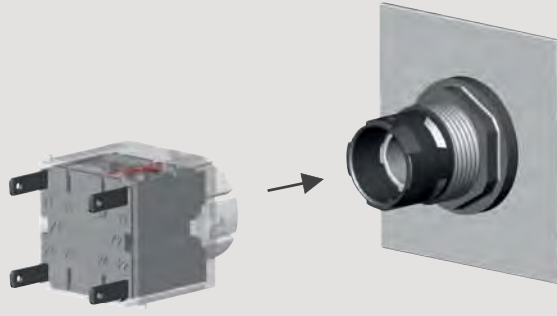
Electrical lifetime data:

AC15	60V/3A	1000.000
DC13	24V/5A	50.000
DC13	60V/1A	100.000
DC	40V/5A	100.000 (ohmic load)
DC	50V/4A	100.000 (ohmic load)
DC	60V/3A	100.000 (ohmic load)

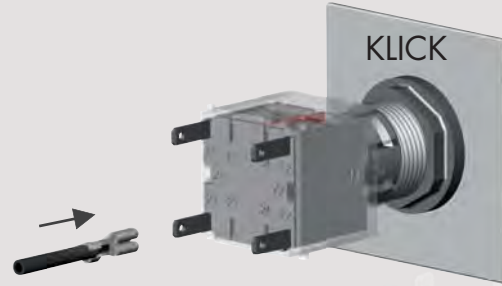
Using a flyback diode, the DC lifetime can be considerably increased at inductive load. The contacts of the "BZ...439" are, as defined in EN 60947-5-1 app. K, not designed as positive opening contacts. Hence, they are not suitable for emergency-stop applications.

Mounting Instructions

1.



2.



3.

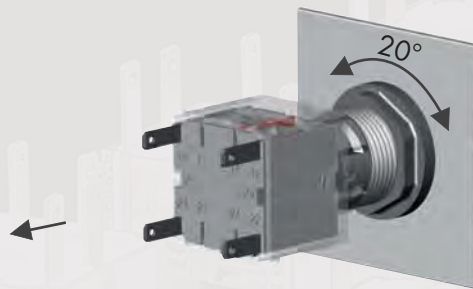


Illustration	Description	Type
 <p>3 mm</p> <p>0 1 2 3</p> <p>12/11 </p> <p>14/13 </p> <p>22/21 </p> <p>24/23 </p> 	<p>Contact Block, maintained 2NC+2NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP8</p> <p>suitable actuators </p> <p>contact material AgNi BF_439</p> <p>contact material AgNi, gold-plated BF_439_AU</p>	
 <p>3 mm</p> <p>0 1 2 3</p> <p>12/11 </p> <p>14/13 </p> <p>22/21 </p> <p>24/23 </p> 	<p>Illuminated Contact Block, maintained 2NC+2NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP10 lamp socket W2x4,6d</p> <p>suitable actuators </p> <p>contact material AgNi BFL_439</p> <p>contact material AgNi, gold-plated BFL_439_AU</p>	
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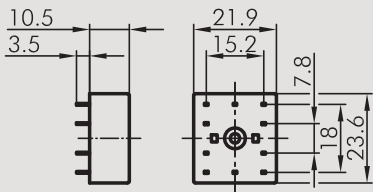
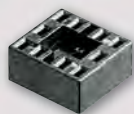
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Illustration

Description

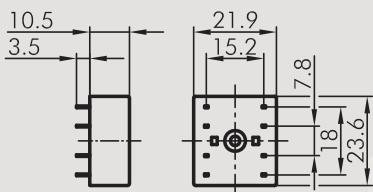
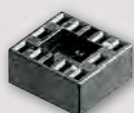
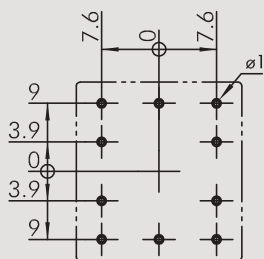
Type



Plug-in Socket

PCB-mount terminals with 10 pins

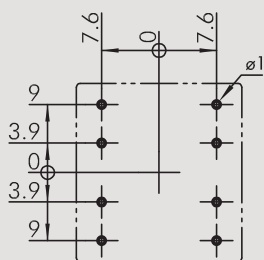
XAP10



Plug-in Socket

PCB-mount terminals with 8 pins

XAP8



Insulating Case

for Faston clamp FH2,8, slip on from the front

IH2,8



Faston Clamp 2.8 x 0.8 mm with snap-in pin

Cross section 0.75 - 1.50 mm², tin-plated brass, with pin to snapfit into the sockets XA, XAL and the insulating case IH2.8

FH2,8



Double Faston

for the connection of 2 Faston clamps FH2.8

FD2,8



Ultra-bright LED, W2x4,6d socket, 12V

with half-wave rectifier, for 12 V AC/DC (6/12 mA)

When connecting to DC, the correct polarity must be observed:

+ ... X1/- ... X2

storage temperature:

-25°C ... +80°C

ambient temperature:

-20°C ... +60°C





voltage tolerance:

+ 10 %

colour

white

L2X4,6-12UW

Illustration	Description	Type												
	<p>Ultra-bright LED, W2x4,6d socket, 24V with half-wave rectifier, for 24 V AC/DC (2/4 mA) When connecting to DC, the correct polarity must be observed: + ... X1/- ... X2 storage temperature: -25°C ... +80°C ambient temperature: -20°C ... +60°C voltage tolerance: + 10 %</p>	<p>colour white L2X4,6-24UW</p>												
	<p>Ultra-bright LED, T5,5K socket, 12V with integrated series resistor and half-wave rectifier, for 12 V AC/DC (7/14 mA) When connecting to DC, the correct polarity must be observed: + ... X1/- ... X2 storage temperature: -25°C ... +80°C ambient temperature: -20°C ... +60°C voltage tolerance: + 10 %</p>	<p>colour white L5,5K12UW</p>												
	<p>Ultra-bright LED, T5,5K socket, 24V with integrated series resistor and half-wave rectifier, for 24 V AC/DC (7/14 mA) When connecting to DC, the correct polarity must be observed: + ... X1/- ... X2 storage temperature: -25°C ... +80°C ambient temperature: -20°C ... +60°C voltage tolerance: + 10 %</p>	<p>colour white L5,5K24UW</p>												
	<p>Two-colour LED, T5,5K socket - 24V with integrated series resistor colour dependent on polarity Storage temperature: -25°C ... +80°C Ambient temperature: -20°C ... +60°C Voltage tolerance: + 10 %</p>	<table border="0"> <tr> <td>Colour:</td> <td>red</td> <td>green</td> </tr> <tr> <td>Rated current [mA]:</td> <td>14</td> <td>13</td> </tr> <tr> <td>Brightness [mcd]:</td> <td>2300</td> <td>650</td> </tr> <tr> <td>Dominant wavelength: [nm]</td> <td>625</td> <td>525</td> </tr> </table> <p>colour red/green L5,5K24RG</p>	Colour:	red	green	Rated current [mA]:	14	13	Brightness [mcd]:	2300	650	Dominant wavelength: [nm]	625	525
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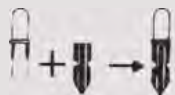
Type



Ultra-bright LED

solder pins, grid 2.54 mm
ready-made for CTP_485
3680 mcd white

LED3UW



LED Adapter

for LEDs of 3 and 5 mm Ø to be used in
T5.5K sockets,
an external resistor must be provided.

lamp socket T5,5K

LA5,5



Voltage Reducer (for LEDs)

Faston terminals 2.8x0.8 mm
to operate a LED at 230V AC

VE_LED230



Cable Set with Faston connections

suitable for VE_LED230

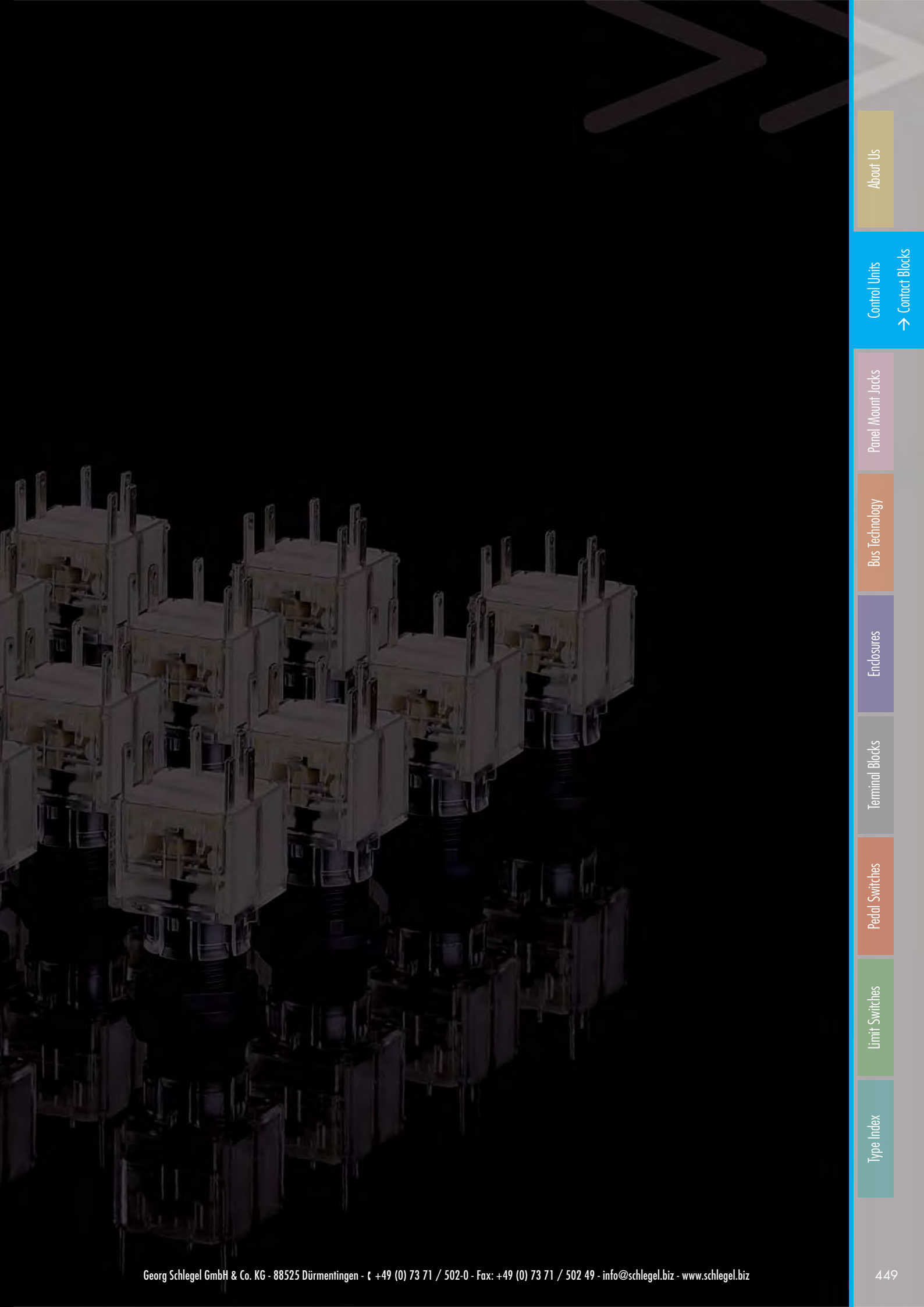
VE_VK2,8



Cable Set with wire end ferrules

suitable for VE_LED230

VE_VKAE



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