



**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 million 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)**

	alternate current	direct current
Rated insulation voltage Ui:	60V	60V
Rated operating voltage Ue:	60V~	60V(ind.) / 60V (R) / 50V(R) / 40V(R)
Rated operating current Ie:	3A (inductive)	1A / 3A / 4A / 5A
Continuous thermal current:	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

<b>Electrical Features Rated voltage:</b>	20mV ... 42V AC/DC
Rated current:	1mA ... 250mA
Contact resistance (new state):	< 50 mOhm
Additional Electrical Data	
Overvoltage category:	II

**Note**

O = NC contact; I = NO contact; 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.

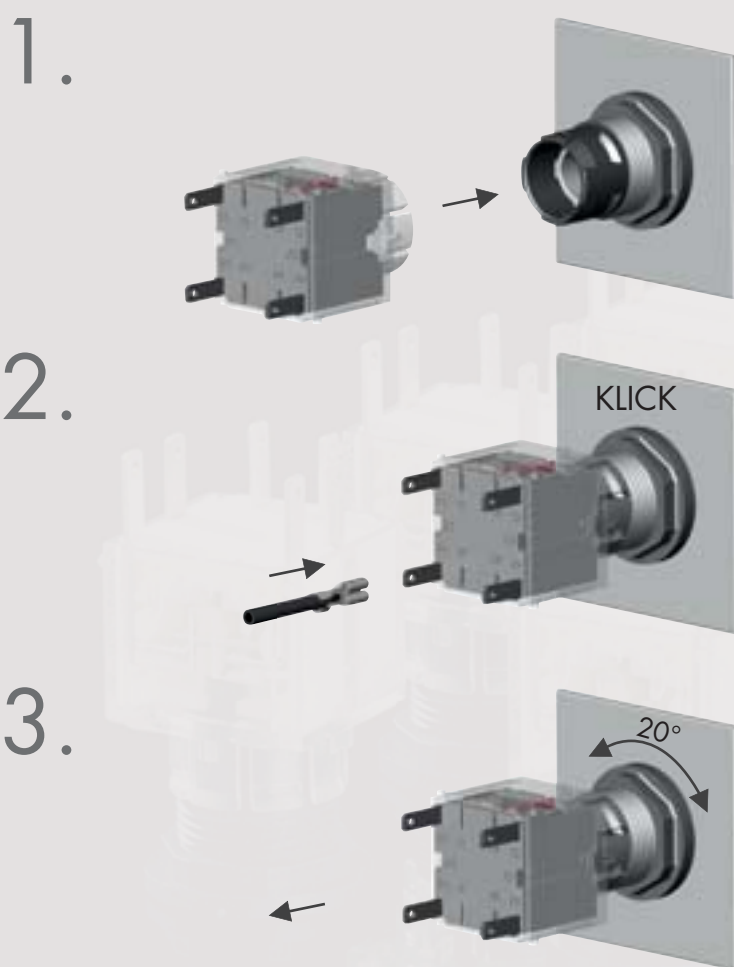
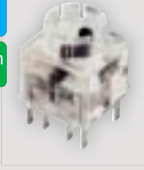
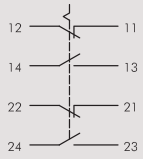


Illustration Description Type

**IP00**  
3mm




0 1 2 3  
12/11  
14/13  
22/21  
24/23



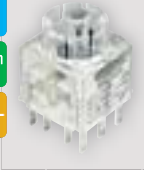
**Contact block, maintained**  
**2NC + 2NO**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP8

suitable pushbuttons and switches:

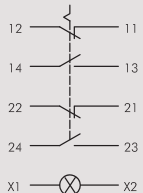


Contact material: AgNi **BFL\_439**  
AgNi, gold-plated **BFL\_439\_AU**

**IP00**  
3mm




0 1 2 3  
12/11  
14/13  
22/21  
24/23




**Illuminated contact block, maintained, W2x4,6d**  
**2NC + 2NO**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP10  
Lamp socket W2x4,6d

suitable pushbuttons and switches:

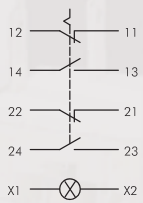


Contact material: AgNi **BFL\_439**  
AgNi, gold-plated **BFL\_439\_AU**

**IP00**  
3mm




0 1 2 3  
12/11  
14/13  
22/21  
24/23



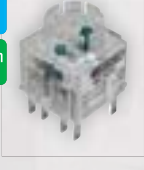
**Illuminated contact block, maintained, T5,5K**  
**2NC + 2NO**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP10  
Lamp socket T5,5K

suitable pushbuttons and switches:

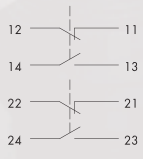


Contact material: AgNi **BFL5\_439**  
AgNi, gold-plated **BFL5\_439\_AU**

**IP00**  
3mm




0 1 2 3  
12/11  
14/13  
22/21  
24/23




**Contact block, momentary**  
**2NC + 2NO**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP8

suitable pushbuttons and switches:

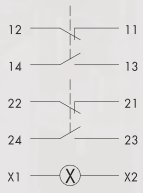


Contact material: AgNi **BZ\_439**  
AgNi, gold-plated **BZ\_439\_AU**

**IP00**  
3mm




0 1 2 3  
12/11  
14/13  
22/21  
24/23



**Illuminated contact block, momentary, W2x4,6d**  
**2NC + 2NO**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP10  
Lamp socket W2x4,6d

suitable pushbuttons and switches:



Contact material: AgNi **BZL\_439**  
AgNi, gold-plated **BZL\_439\_AU**

# Contact blocks B...\_439

flat-plug connections

MADE IN GERMANY



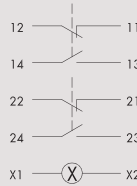
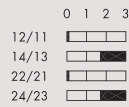
Illustration

Description

Type

IPOO

3 mm



## Illuminated contact block, momentary, T5,5K 2NC + 2NO

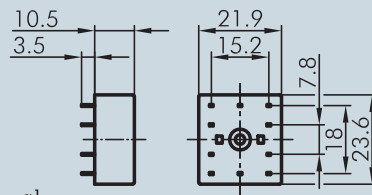
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP10  
Lamp socket T5,5K

suitable pushbuttons and switches:



Contact material: AgNi **BZL5\_439**  
AgNi, gold-plated **BZL5\_439\_AU**

## Accessories



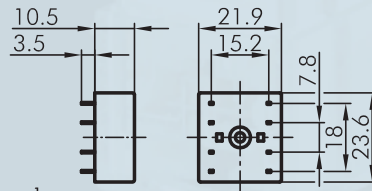
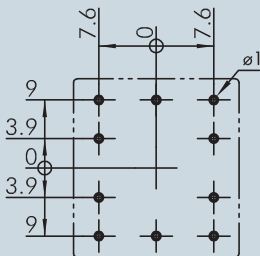
### Plug-in socket with 10 contacts

Connection type: PCB-mount terminals

suitable lampholders:



XAP10



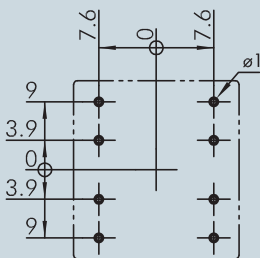
### Plug-in socket with 8 contacts

Connection type: PCB-mount terminals

suitable lampholders:



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 mm<sup>2</sup>, tin-plated brass, with pin to snapfit into the sockets XA, XAL and the insulating case IH2.8

FH2,8

Illustration	Description	Type
	<p><b>Double Faston</b> for the connection of 2 Faston clamps FH2.8</p>	<p>FD2,8</p>
	<p><b>Ultra-bright LED, W2x4,6d socket, 12V</b> 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 %</p> <p>coulour:</p>	<p>L2X4,6-12UW</p>
	<p><b>Ultra-bright LED, W2x4,6d socket, 24V</b> 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>coulour:</p>	<p>L2X4,6-24UW</p>
	<p><b>Ultra-bright LED, T5,5K socket, 12V</b> 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>coulour:</p>	<p>L5,5K12UW</p>
	<p><b>Ultra-bright LED, T5,5K socket, 24V</b> 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>coulour:</p>	<p>L5,5K24UW</p>

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↑ Contact Blocks

Illustration

Description

Type



### Two-colour LED, T5,5K socket - 24V

mit eingebautem Vorwiderstand  
Farbe abhängig von der Polarität  
Lagertemperatur:  
-25°C ... +80°C  
Umgebungstemperatur:  
-20°C ... +60°C  
Spannungstoleranz:  
+ 10 %  
Farbe: rot grün  
Nennstrom [mA]: 14 13  
Lichtstärken [mcd]: 2300 650  
Dom. Wellenlänge [nm]: 625 525

L5,5K24RG



### LED adapter

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

blocs de contact adaptables



LA5,5

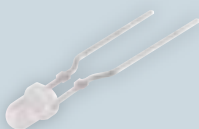


### Voltage reducer to operate an LED at 230V AC

- max. 12mA with LD9-24V/L5,5K24...
- with overvoltage protection
- attention: no electrical isolation
- there could be a dangerous voltage on the lampholder

Connection type: Faston terminals  
2.8x0.8 mm

VE\_LED230\_S



### Ultra-bright LED

ready-made for CTP\_485  
Connection type: solder pins, grid  
2.54 mm

LED3UW



### 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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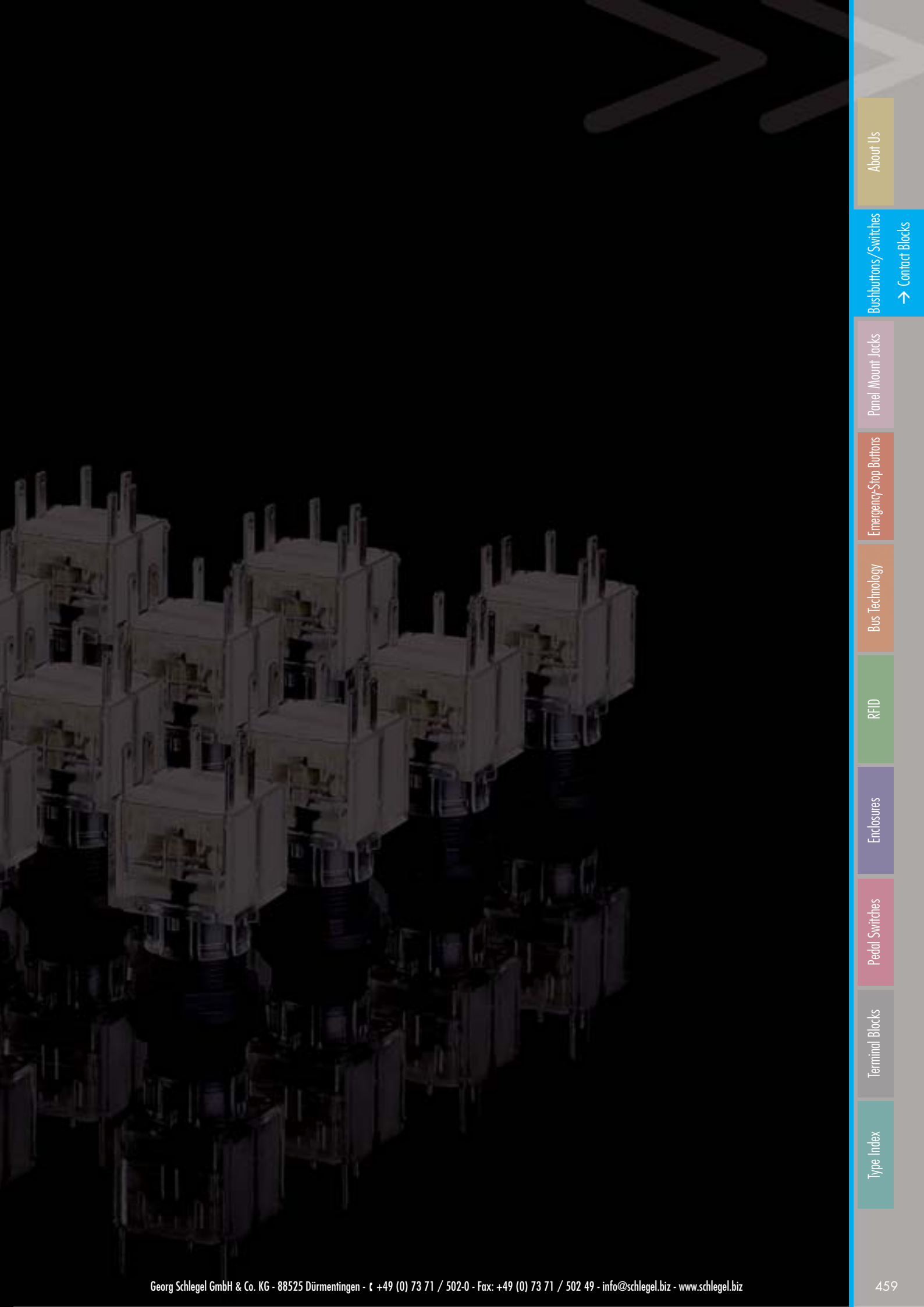
RFD

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