



**BTL5\_439** 03.05.2021

### Illuminated Contact Block, momentary



General Data	
Type reference	BTL5_439
Description	Illuminated contact block
Approvals	CCC, CE, UKCA
Contact type	2 NC + 2 NO
Degree of protection	IPOO
Operation travel	3 mm
Connection type	Faston terminals 2.8 x 0.8 mm
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
Utilisation category	-	-
Rated insulation voltage Ui	-	-
Rated operating voltage Ue	60V~	60 V (ind.) / 60 V (R) / 50 V (R) / 40 V (R)
Rated operating current le	3 A (inductive)	1A/3A/4A/5A
Breaking capacity	-	-
Continuous thermal current	6 A	-

Technical Data - Lamp







Lamp socket	T5,5K
Max. lamp voltage	60 V
Max. lamp output	1.2 W
Definition	X1anode, X2cathode

### Additional electrical data

Overvoltage category

II

#### Note

Electrical life data:
AC15 60V/3A 1000.000
DC13 24V/5A 35.000
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.

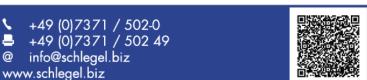
## Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category	DC13	-
Rated insulation voltage Ui	-	-
Rated operating voltage Ue	12 V	
Rated operating current le	6 A	-
Breaking capacity	1,1le	-
Continuous thermal current	-	-

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

Rated voltage Ue 12 V DC

Rated current le 6[6] A









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12/11	$\times$ I	
14/13	M X X	
22/21	$\times$	
24/23		

