



General Data

Type Reference:	BF... (without screw connection)
Description:	Contact Block
Approvals:	CCC, cCSAus, ENEC10, VDE, CE, NV, UR
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 LED's
Mechanical life:	1 m switching cycles
Electrical life (rated load):	1m operations at rated load
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

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

Utilisation category:	alternate current	direct current
Rated insulation voltage U_i :	AC15 B300	DC13 Q300
Rated operating voltage U_e :	250 V	300 V
Rated operating voltage U_e :	250 V	250V / 125V / 60V / 24V
Rated operating current I_e :	1.5A	0.2A / 0.4A / 1A / 2A
Breaking capacity:	10Ie	1,1Ie
Continuous thermal current:	6 A	

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

Rated voltage U_e :	250 V~
Rated current I_e :	6(4) 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

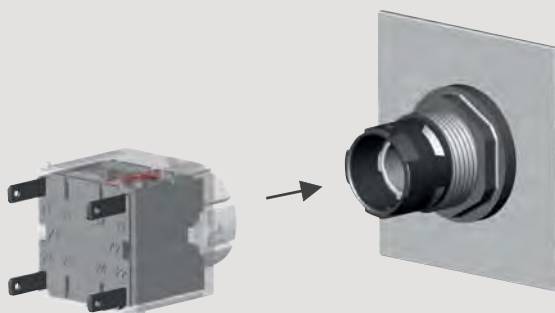
Operational voltage:	20mV ... 42V AC/DC
Switching current:	1mA ... 250mA
Contact resistance (new state):	< 50 mOhm

Additional Electrical Data

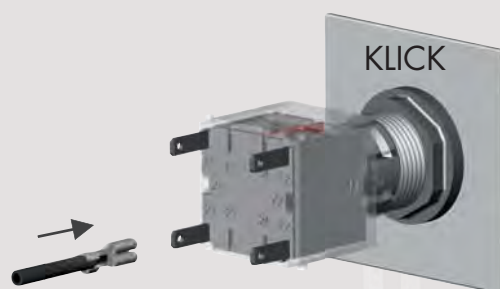
Overtoltage category:	II
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Mounting Instructions

1.



2.



3.

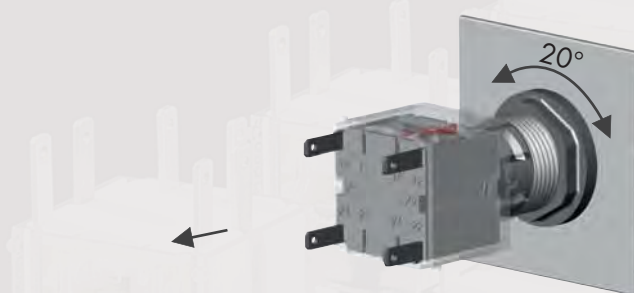
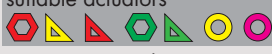


Illustration	Description		Type
  0 1 2 3 22/21  14/13  22  21  14  13 	Contact Block, maintained 1NC + 1NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP601 suitable actuators  contact material AgNi BF contact material AgNi, gold-plated BF_AU		
  0 1 2 3 22/21  14/13  22  21  14  13  X1  X2 	Illuminated Contact Block, maintained 1NC + 1NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP601 lamp socket W2x4,6d suitable actuators  contact material AgNi BFL contact material AgNi, gold-plated BFL_AU		
  0 1 2 3 22/21  14/13  22  21  14  13  X1  X2 	Illuminated Contact Block, maintained 1NC + 1NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP601 lamp socket T5,5K suitable actuators  contact material AgNi BFL5 contact material AgNi, gold-plated BFL5_AU		
  0 1 2 3 24/23  14/13  24  23  14  13 	Contact Block, maintained 2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP611 suitable actuators  contact material AgNi BFI contact material AgNi, gold-plated BFI_AU		
  0 1 2 3 24/23  14/13  24  23  14  13  X1  X2 	Illuminated Contact Block, maintained 2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP611 lamp socket W2x4,6d suitable actuators  contact material AgNi BFLI contact material AgNi, gold-plated BFLI_AU		
  0 1 2 3 24/23  14/13  24  23  14  13  X1  X2 	Illuminated Contact Block, maintained 2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP611 lamp socket T5,5K suitable actuators  contact material AgNi BFLI5 contact material AgNi, gold-plated BFLI5_AU		

Contact Blocks

Faston terminals 2.8x0.8 mm

made in germany

SCHLEGEL
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Lampholder

BL4

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP2
lamp socket W2x4,6d

suitable pilot light heads



Lampholder

BL5

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP2
lamp socket T5,5K

suitable pilot light heads

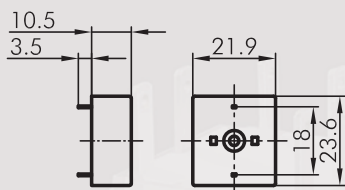
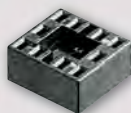


Lampholder

L4

Faston terminals 2.8x0.8 mm
suitable protection plug XAL
lamp socket W2x4,6d

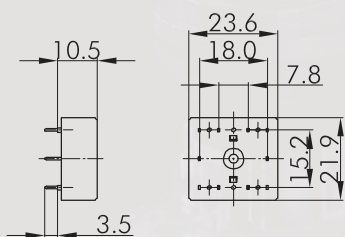
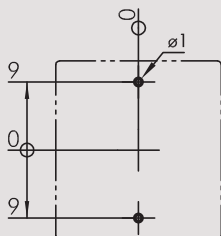
suitable pilot light heads



Plug-in Socket

XAP2

PCB-mount terminals
with 2 pins
fits the lampholders



Plug-in Socket

XAP611

PCB-mount terminals
with 6 pins

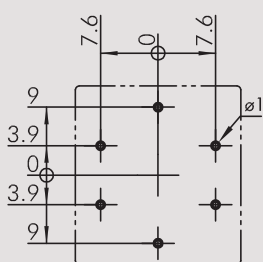
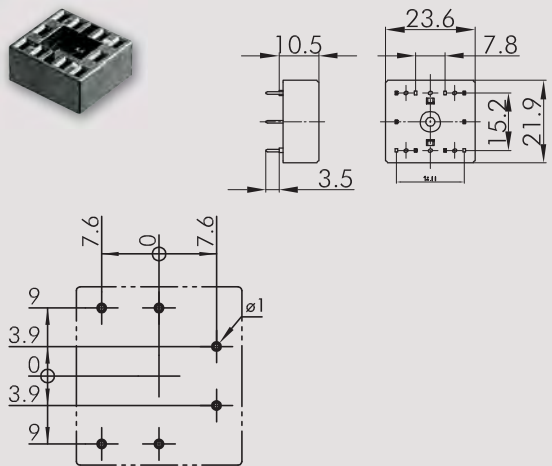


Illustration	Description	Type
	Plug-in Socket PCB-mount terminals with 6 pins	XAP601
	Insulating Case for Faston clamp FH2,8, slip on from the front	IH2,8
	Faston Clamp 2.8 x 0.8 mm with snap-in pin Cross section 0.75 - 1.50 mm², tin-plated brass, with pin to snapfit into the sockets XA, XAL and the 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
	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 % colour white	L2X4,6-24UW

Contact Blocks

Faston terminals 2.8x0.8 mm

made in germany



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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 %

colour

white

L5,5K12UW



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 %

colour

white

L5,5K24UW



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 %

Colour: red
green

Rated current [mA]: 14 13

Brightness [mcd]: 2300 650

Dominant wavelength: [nm] 625 525

colour

red/green

L5,5K24RG



Ultra-bright LED

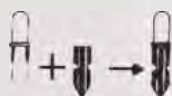
solder pins, grid 2.54 mm

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

Illustration	Description	Type
	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





General Data

Type Reference:	BF...K
Description:	Contact Block
Approvals:	CCC, cCSAus, ENEC10, VDE, CE, NV, UR
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	screw connection
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 LED's
Mechanical life:	1 m switching cycles
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 20 mOhm (new state)
Contact resistance NC:	< 20 mOhm (new state)
Min. current:	1 mA
Min. voltage:	5 V
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

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

Utilisation category:	alternate current AC15 B300	direct current DC13 Q300
Rated insulation voltage U_i :	250 V	300 V
Rated operating voltage U_e :	250 V	250V / 125V / 60V / 24V
Rated operating current I_e :	1.5A	0.2A / 0.4A / 1A / 2A
Breaking capacity:	10Ie	1,1Ie
Continuous thermal current:	6 A	

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

Rated voltage U_e :	250 V~
Rated current I_e :	6(4) 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

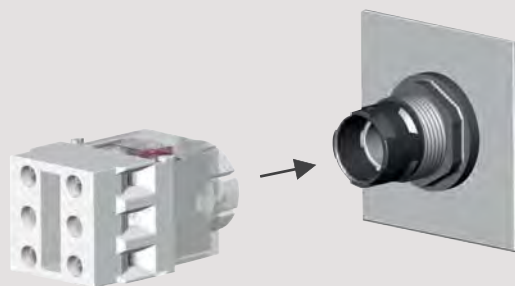
Operational voltage:	20mV ... 42V AC/DC
Switching current:	1mA ... 250mA
Contact resistance (new state):	< 50 mOhm
Tightening torque (screw terminal):	0.4 Nm

Additional Electrical Data

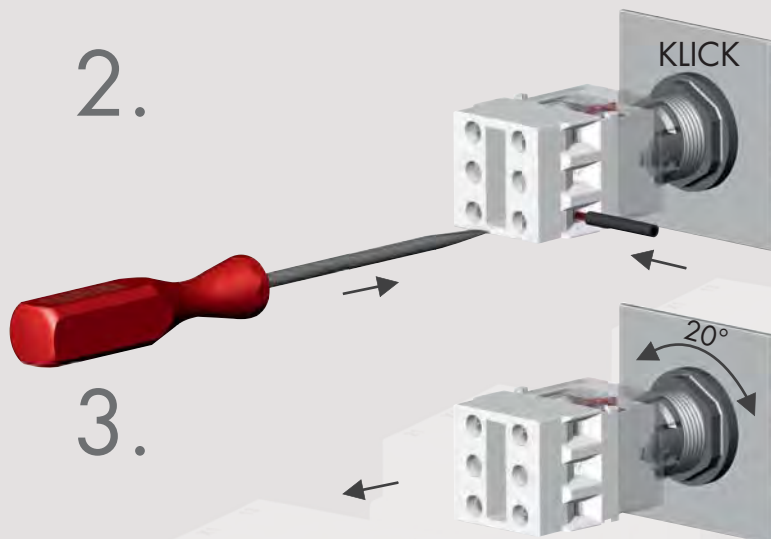
Overvoltage category:	II
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Mounting Instructions

1.



2.



3.

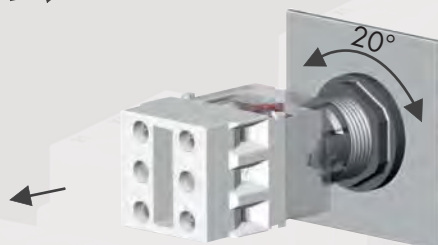
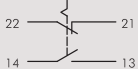
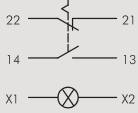
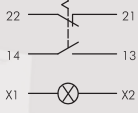
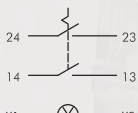
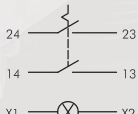
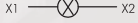
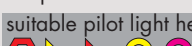


Illustration	Description		Type
  0 1 2 3 22/21 14/13 	Contact Block, maintained 1NC + 1NO screw connection 2.5 mm ² suitable actuators  contact material AgNi		BFK
  0 1 2 3 22/21 14/13 	Illuminated Contact Block, maintained 1NC + 1NO screw connection 2.5 mm ² lamp socket W2x4,6d suitable actuators  contact material AgNi		BFLK
  0 1 2 3 22/21 14/13 	Illuminated Contact Block, maintained 1NC + 1NO screw connection 2.5 mm ² lamp socket T5,5K suitable actuators  contact material AgNi		BFL5K
  0 1 2 3 24/23 14/13 	Contact Block, maintained 2NO screw connection 2.5 mm ² suitable actuators  contact material AgNi		BFIK
  0 1 2 3 24/23 14/13 	Illuminated Contact Block, maintained 2NO screw connection 2.5 mm ² lamp socket W2x4,6d suitable actuators  contact material AgNi		BFLIK
  0 1 2 3 24/23 14/13 	Illuminated Contact Block, maintained 2NO screw connection 2.5 mm ² lamp socket T5,5K suitable actuators  contact material AgNi		BFLI5K
  0 1 2 3 24/23 14/13 	Lampholder screw connection 2.5 mm ² lamp socket W2x4,6d suitable pilot light heads 		BL4K
  0 1 2 3 24/23 14/13 	Lampholder screw connection 2.5 mm ² T5,5K socket lamp socket T5,5K suitable pilot light heads 		BL5K

Contact Blocks

screw connection 2.5 mm²

made in germany



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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



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 %

colour

white

L2X4,6-24UW



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 %

colour

white

L5,5K12UW



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 %

colour

white

L5,5K24UW

Illustration	Description	Type
	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 % Colour: red green Rated current [mA]: 14 13 Brightness [mcd]: 2300 650 Dominant wavelength: [nm] 625 525	
	colour red/green	L5,5K24RG
	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.	LA5,5
	lamp socket T5,5K	
	Voltage Reducer (for LEDs) Faston terminals 2.8x0.8 mm to operate a LED at 230V AC	VE_LED230
	Cable Set with wire end ferrules suitable for VE_LED230	VE_VKAE



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

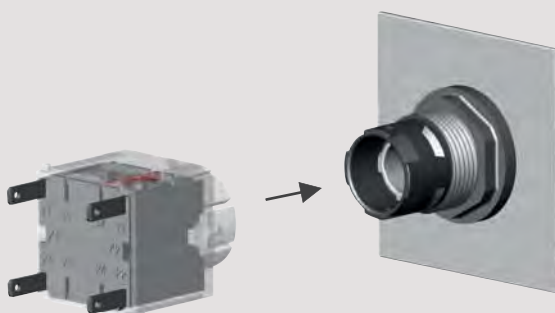
Electrical lifetime data:

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)

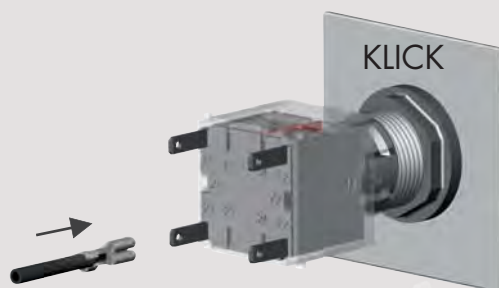
Using a flyback diode, the DC lifetime can be considerably increased at inductive load. The contacts of the "BZ...439" are, as defined in EN 60947-5-1 app. K, not designed as positive opening contacts. Hence, they are not suitable for emergency-stop applications.

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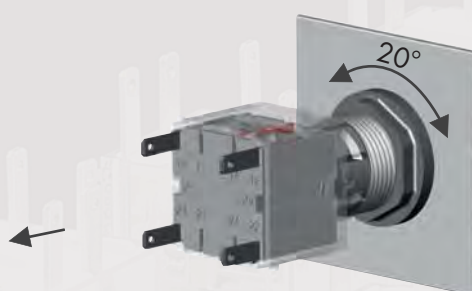
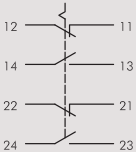
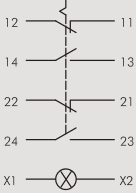
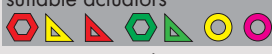
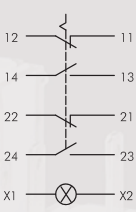
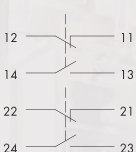
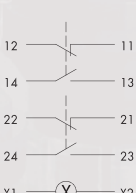


Illustration	Description		Type
  0 1 2 3 12/11 14/13 22/21 24/23 	Contact Block, maintained 2NC+2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP8 suitable actuators  contact material AgNi contact material AgNi, gold-plated		BF_439 BF_439_AU
  0 1 2 3 12/11 14/13 22/21 24/23 	Illuminated Contact Block, maintained 2NC+2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP10 lamp socket W2x4,6d suitable actuators  contact material AgNi contact material AgNi, gold-plated		BFL_439 BFL_439_AU
  0 1 2 3 12/11 14/13 22/21 24/23 	Illuminated Contact Block, maintained 2NC+2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP10 lamp socket T5,5K suitable actuators  contact material AgNi contact material AgNi, gold-plated		BFL5_439 BFL5_439_AU
  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 actuators  contact material AgNi contact material AgNi, gold-plated		BZ_439 BZ_439_AU
  0 1 2 3 12/11 14/13 22/21 24/23 	Illuminated Contact Block, momentary 2NC+2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP10 lamp socket W2x4,6d suitable actuators  contact material AgNi contact material AgNi, gold-plated		BZL_439 BZL_439_AU

Contact Blocks

Faston terminals 2.8x0.8 mm

made in germany



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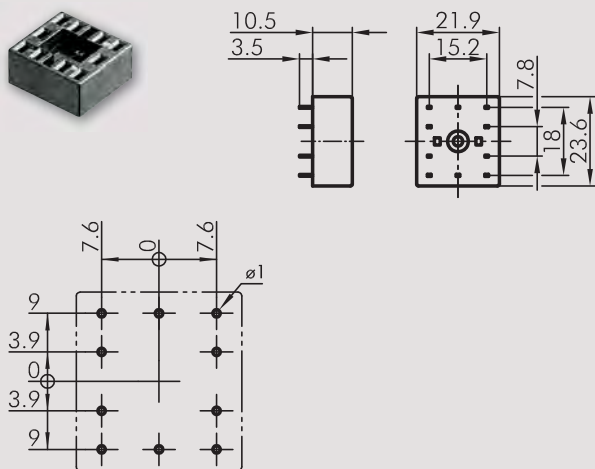
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Description

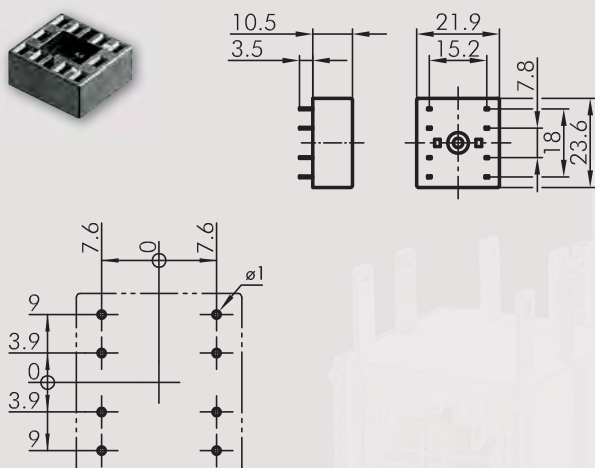
Type



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



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 %

colour

white

L2X4,6-24UW



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 %

colour

white

L5,5K12UW



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 %

colour

white

L5,5K24UW



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 %

Colour:	red	green
Rated current [mA]:	14	13
Brightness [mcd]:	2300	650
Dominant wavelength: [nm]	625	525

colour

red/green

L5,5K24RG

Contact Blocks

Faston terminals 2.8x0.8 mm

made in germany



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Illustration

Description

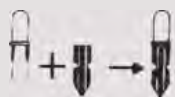
Type



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.

LA5,5

lamp socket

T5,5K



Voltage Reducer (for LEDs)

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

VE_LED230



Cable Set with Faston connections

VE_VK2,8

suitable for VE_LED230



Cable Set with wire end ferrules

VE_VKAE

suitable for VE_LED230



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General Data

Type Reference:	BZ... (without screw connection)
Description:	Twin Contact Block, separate plungers, positive opening contact
Approvals:	CCC, cCSAus, ENEC10, VDE, CE, NV, TÜV_Süd, positive opening contact, UR
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 LED's
Mechanical life:	1 m switching cycles
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 20 mOhm (new state)
Contact resistance NC:	< 20 mOhm (new state)
Min. current:	1 mA
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 B300	DC13 Q600
Rated insulation voltage Ui:	250 V	300 V
Rated operating voltage Ue:	250 V	250V / 125V / 60V / 24V
Rated operating current Ie:	1.5A	0.2A / 0.4A / 1A / 2A
Breaking capacity:	10Ie	1,1Ie
Continuous thermal current:	6 A	

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

Rated voltage Ue:	250 V~
Rated current Ie:	6(4) A

Technical Data - Lamp

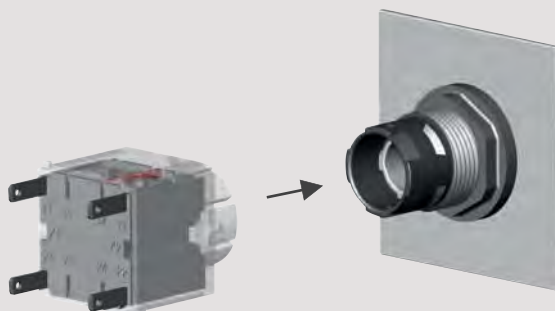
Lamp socket:	T5,5K / W2x4,6d
Max. lamp voltage:	60V
Max. lamp output:	1.2W
Definition:	X1...anode, X2...cathode

Electrical Features

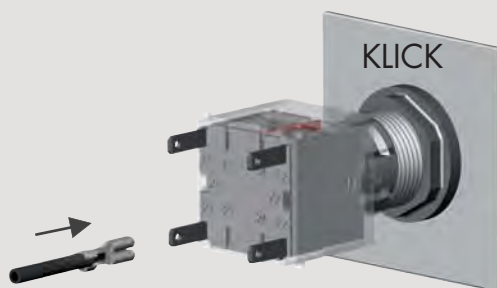
Operational voltage:	20mV ... 42V AC/DC
Switching current:	1mA ... 250mA
Contact resistance (new state):	< 50 mOhm

Mounting Instructions

1.



2.



3.

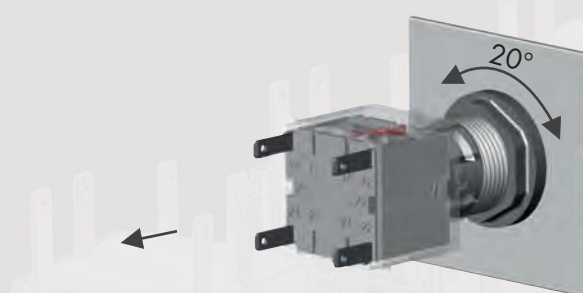


Illustration	Description		Type
  14/13  14  13	Contact Block, momentary 1NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP411 suitable actuators  contact material AgNi BZI contact material AgNi, gold-plated BZI_AU		
  14/13  14  13 X1  X2	Illuminated Contact Block, momentary 1NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP611 lamp socket W2x4,6d suitable actuators  contact material AgNi BZLI contact material AgNi, gold-plated BZLI_AU		
  14/13  14  13 X1  X2	Illuminated Contact Block, momentary 1NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP611 lamp socket T5,5K suitable actuators  contact material AgNi BZLI5 contact material AgNi, gold-plated BZLI5_AU		
  24/23  14/13  24  23 14  13	Contact Block, momentary 2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP411 suitable actuators  contact material AgNi BZII contact material AgNi, gold-plated BZII_AU		
  24/23  14/13  24  23 14  13 X1  X2	Illuminated Contact Block, momentary 2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP611 lamp socket W2x4,6d suitable actuators  contact material AgNi BZLII contact material AgNi, gold-plated BZLII_AU		
  24/23  14/13  24  23 14  13 X1  X2	Illuminated Contact Block, momentary 2NO Faston terminals 2.8x0.8 mm suitable plug-in socket XAP611 lamp socket T5,5K suitable actuators  contact material AgNi BZLII5 contact material AgNi, gold-plated BZLII5_AU		

Contact Blocks

Faston terminals 2.8x0.8 mm

made in germany



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Contact Block, momentary 1NC

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP4

suitable actuators

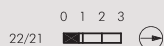


contact material AgNi

BZO

contact material AgNi, gold-plated

BZO_AU



Illuminated Contact Block, momentary 1NC

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP6
lamp socket W2x4,6d

suitable actuators



contact material AgNi

BZLO

contact material AgNi, gold-plated

BZLO_AU



Illuminated Contact Block, momentary 1NC

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP6
lamp socket T5,5K

suitable actuators



contact material AgNi

BZLO5

contact material AgNi, gold-plated

BZLO5_AU



Contact Block, momentary 2NC

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP4

suitable actuators

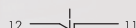


contact material AgNi

BZOO

contact material AgNi, gold-plated

BZOO_AU



Illuminated Contact Block, momentary 2NC

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP6
lamp socket W2x4,6d

suitable actuators



contact material AgNi

BZLOO

contact material AgNi, gold-plated

BZLOO_AU



Illuminated Contact Block, momentary 2NC

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP6
lamp socket T5,5K

suitable actuators



contact material AgNi

BZLOO5

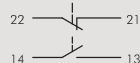
contact material AgNi, gold-plated

BZLOO5_AU

Illustration

Description

Type



Contact Block, momentary 1NC + 1NO

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP601

suitable actuators

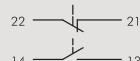


contact material AgNi

BZOI

contact material AgNi, gold-plated

BZOI_AU



Illuminated Contact Block, momentary 1NC + 1NO

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP601
lamp socket W2x4,6d

suitable actuators

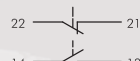


contact material AgNi

BZLOI

contact material AgNi, gold-plated

BZLOI_AU



Illuminated Contact Block, momentary 1NC + 1NO

Faston terminals 2.8x0.8 mm
suitable plug-in socket XAP601
lamp socket T5,5K

suitable actuators

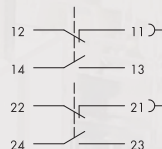
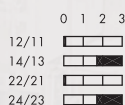


contact material AgNi

BZLOI5

contact material AgNi, gold-plated

BZLOI5_AU



Contact Block, momentary 2NC + 2NO

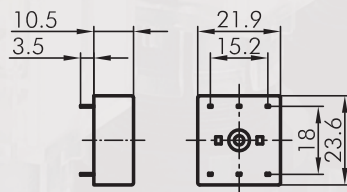
Faston terminals 2.8x0.8 mm

suitable actuators



contact material AgNi

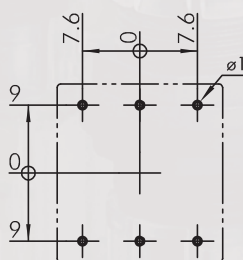
BZ_494



Plug-in Socket

PCB-mount terminals
with 6 pins

XAP6



Contact Blocks

Faston terminals 2.8x0.8 mm

made in germany

SCHLEGEL
ELEKTROKONTAKT

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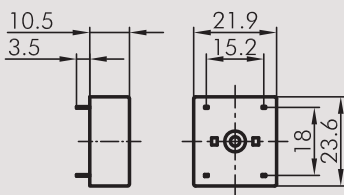
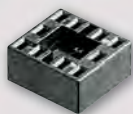
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Illustration

Description

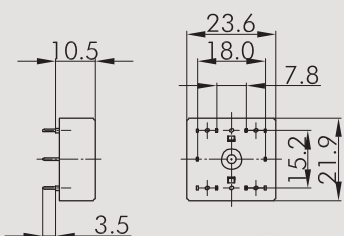
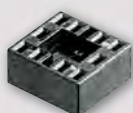
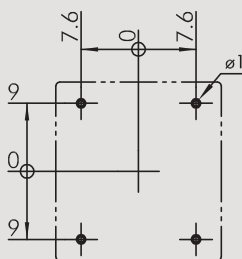
Type



Plug-in Socket

PCB-mount terminals
with 4 pins

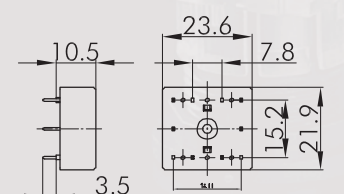
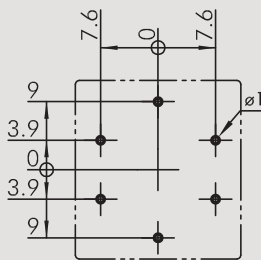
XAP4



Plug-in Socket

PCB-mount terminals
with 6 pins

XAP611



Plug-in Socket

PCB-mount terminals
with 6 pins

XAP601

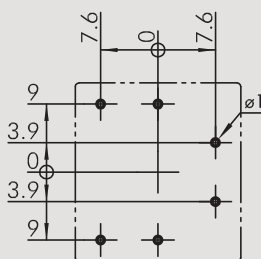


Illustration	Description	Type
	Plug-in Socket with 4 pins	XAP411
	Insulating Case for Faston clamp FH2,8, slip on from the front	IH2,8
	Faston Clamp 2.8 x 0.8 mm with snap-in pin Cross section 0.75 - 1.50 mm ² , tin-plated brass, with pin to snapfit into the sockets XA, XAL and the insulating case IH2.8	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
	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 % colour white	L2X4,6-24UW

Contact Blocks

Faston terminals 2.8x0.8 mm

made in germany



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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 %

colour

white

L5,5K12UW



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 %

colour

white

L5,5K24UW



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 %

Colour: red green

Rated current [mA]: 14 13

Brightness [mcd]: 2300 650

Dominant wavelength: [nm] 625 525

colour

red/green

L5,5K24RG



Ultra-bright LED

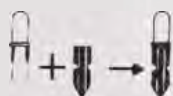
solder pins, grid 2.54 mm

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

Illustration	Description	Type
	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





General Data

Type Reference:	BZ...K
Description:	Twin Contact Block, separate plungers, positive opening contact
Approvals:	CCC, cCSAus, ENEC10, VDE, CE, NV, TÜV_Süd, positive opening contact, UR
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	screw connection
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 LED's
Mechanical life:	1 m switching cycles
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 20 mOhm (new state)
Contact resistance NC:	< 20 mOhm (new state)
Min. current:	1 mA
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)

Utilisation category:	alternate current AC15 B300	direct current DC13 Q600
Rated insulation voltage Ui:	250 V	300 V
Rated operating voltage Ue:	250 V	250V / 125V / 60V / 24V
Rated operating current Ie:	1.5A	0.2A / 0.4A / 1A / 2A
Breaking capacity:	10Ie	1,1Ie
Continuous thermal current:	6 A	

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

Rated voltage Ue:	250 V~
Rated current Ie:	6(4) 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

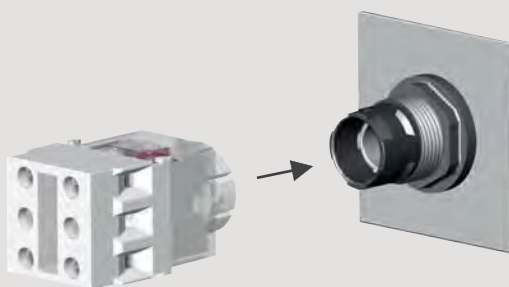
Operational voltage:	20mV ... 42V AC/DC
Switching current:	1mA ... 250mA
Contact resistance (new state):	< 50 mOhm

Additional Data

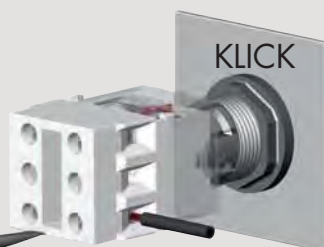
Tightening torque (screw terminal):	0.4 Nm
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Mounting Instructions

1.



2.



3.

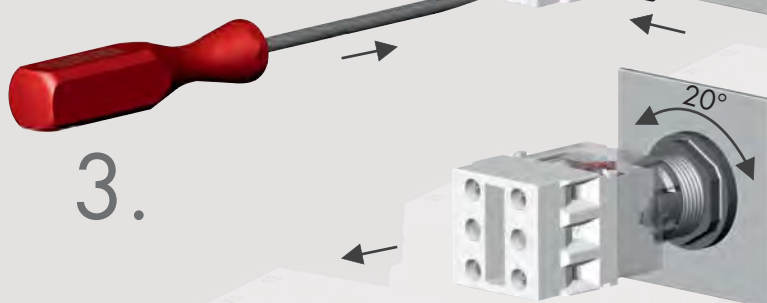
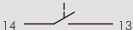
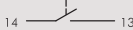
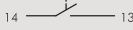
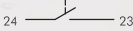
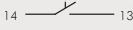
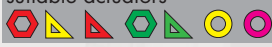
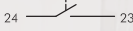
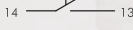
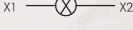
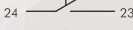
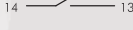
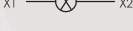
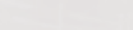
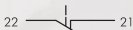


Illustration	Description		Type
  14/13 0 1 2 3 	Contact Block, momentary 1NO screw connection 2.5 mm ² suitable actuators  contact material AgNi		BZIK
  14/13 0 1 2 3  	Illuminated Contact Block, momentary 1NO screw connection 2.5 mm ² lamp socket W2x4,6d suitable actuators  contact material AgNi		BZLIK
  14/13 0 1 2 3  	Illuminated Contact Block, momentary 1NO screw connection 2.5 mm ² lamp socket T5,5K suitable actuators  contact material AgNi		BZLI5K
  24/23 14/13 0 1 2 3  	Contact Block, momentary 2NO screw connection 2.5 mm ² suitable actuators  contact material AgNi		BZIIK
  24/23 14/13 0 1 2 3   	Illuminated Contact Block, momentary 2NO screw connection 2.5 mm ² lamp socket W2x4,6d suitable actuators  contact material AgNi		BZIIK
  24/23 14/13 0 1 2 3   	Illuminated Contact Block, momentary 2NO screw connection 2.5 mm ² lamp socket T5,5K suitable actuators  contact material AgNi		BZII5K
  22/21 0 1 2 3  	Contact Block, momentary 1NC screw connection 2.5 mm ² suitable actuators  contact material AgNi		BZOK
  22/21 0 1 2 3  	Illuminated Contact Block, momentary 1NC screw connection 2.5 mm ² lamp socket W2x4,6d suitable actuators  contact material AgNi		BZLOK

Contact Blocks

screw connection 2.5 mm²

made in germany



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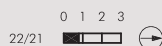
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Illustration

Description

Type



Illuminated Contact Block, momentary 1NC

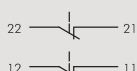
screw connection 2.5 mm²
lamp socket T5,5K

suitable actuators



contact material AgNi

BZLO5K



Contact Block, momentary 2NC

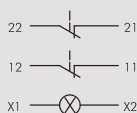
screw connection 2.5 mm²

suitable actuators



contact material AgNi

BZOOK



Illuminated Contact Block, momentary 2NC

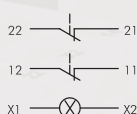
screw connection 2.5 mm²
lamp socket W2x4,6d

suitable actuators



contact material AgNi

BZLOOK



Illuminated Contact Block, momentary 2NC

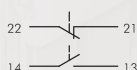
screw connection 2.5 mm²
lamp socket T5,5K

suitable actuators



contact material AgNi

BZLOO5K



Contact Block, momentary 1NC + 1NO

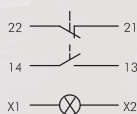
screw connection 2.5 mm²

suitable actuators



contact material AgNi

BZOIK



Illuminated Contact Block, momentary 1NC + 1NO

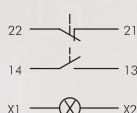
screw connection 2.5 mm²
lamp socket W2x4,6d

suitable actuators



contact material AgNi

BZLOIK



Illuminated Contact Block, momentary 1NC + 1NO

screw connection 2.5 mm²
lamp socket T5,5K

suitable actuators



contact material AgNi

BZLOI5K

Illustration	Description	Type
	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 %	white L2X4,6-12UW
	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 %	white L2X4,6-24UW
	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 %	white L5,5K12UW
	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 %	white L5,5K24UW

Contact Blocks

screw connection 2.5 mm²

made in germany



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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 %

Colour:	red	green
Rated current [mA]:	14	13
Brightness [mcd]:	2300	650
Dominant wavelength: [nm]	625	525

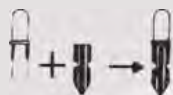
colour	red/green	L5,5K24RG
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Ultra-bright LED

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)

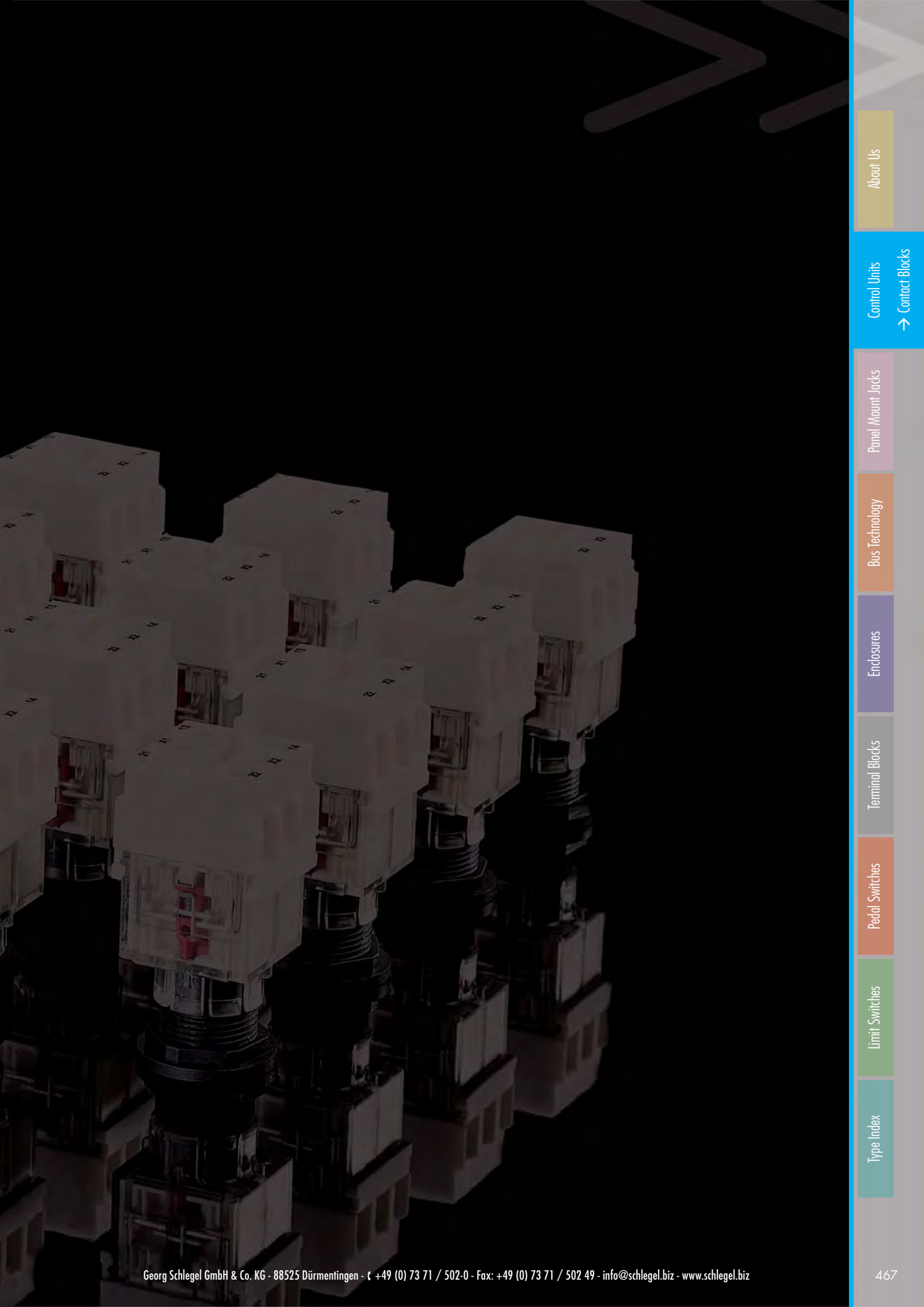
Faston terminals 2.8x0.8 mm
to operate a LED at 230V AC

VE_LED230



Cable Set with wire end ferrules
suitable for VE_LED230

VE_VKAE



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