



### General Data

Type reference:	AZ...
Description:	Twin contact block, separate plungers, positive opening contact
Approvals:	CCC, cCSAus, DNVGL, ENEC05, KEMA, CE, TÜV_Süd
Protection class:	II (protective insulation)
Operation travel:	6 mm
Connection type:	Faston terminals 2.8x0.8 mm
Contact material:	AgNi
Max. storage temperature:	-50°C ... 85°C
Max. operating temperature:	-30°C ... 70°C
Mechanical life:	1 million switching cycles
Electrical life (rated load):	1 million 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:	< 20ms
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 A300	DC13 Q300
Rated insulation voltage U <sub>i</sub> :	250 V	300 V
Rated operating voltage U <sub>e</sub> :	250 V	250V / 125V / 60V / 24V
Rated operating current I <sub>e</sub> :	3A	0.2A / 0.4A / 1A / 2A
Breaking capacity:	10I <sub>e</sub>	1, 1I <sub>e</sub>
Continuous thermal current:	6 A	

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

Rated voltage U <sub>e</sub> :	250 V~
Rated current I <sub>e</sub> :	6(4) A

### Electrical features - 5µm gold-plating, type addition ...AU

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

### Note

O = NC contact; I = NO contact

Notice for emergency-stop contact blocks:

For inverters of the Za type (as defined in EN 60947-5-1), only the NC contact must be used for remotely controlled safety circuits.

The electrical data acc. to UL/CSA may deviate.

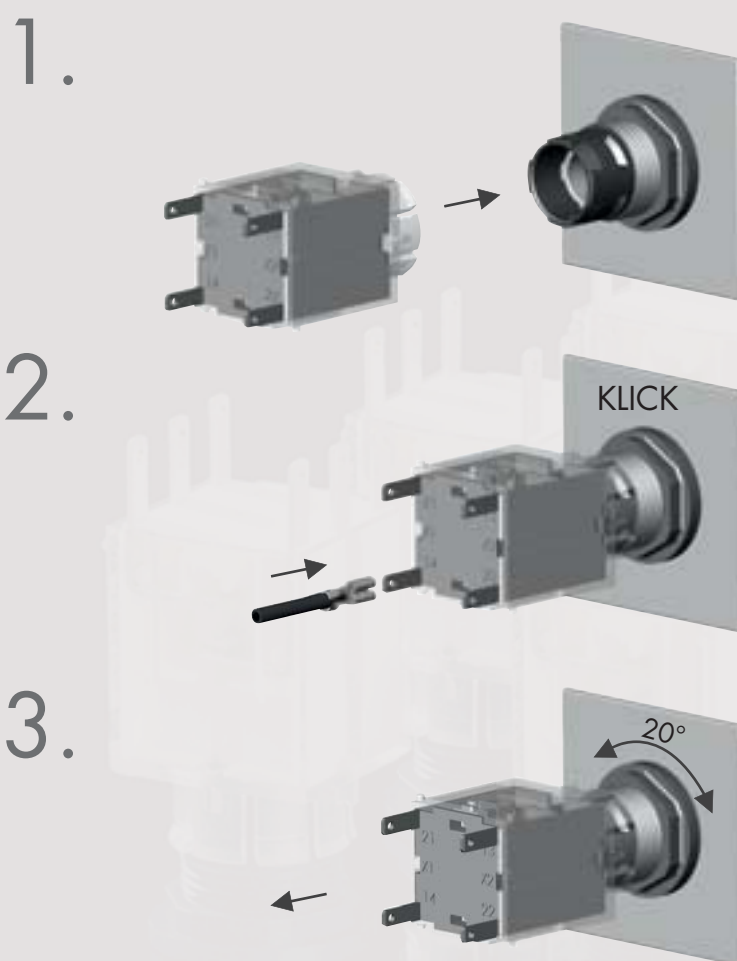

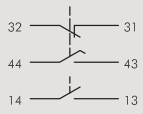


Illustration Description Type

**IP00**  
↓ 6 mm



0 1 2 3 4 5 6  
32/31  
44/43  
14/13




**Contact block, momentary**  
**1NC + 1NO + 1NO early make**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP8

KEMA EUR 05 TUV SUD cRU US

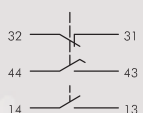
suitable pushbuttons and switches:

Contact material: AgNi **AZ011**  
AgNi, doré **AZ011\_AU**

**IP00**  
↓ 6 mm



0 1 2 3 4 5 6



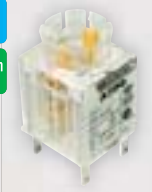
**Two-step contact block, momentary**  
**1NC + 1NO + 1NO early make**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP10

KEMA EUR 05 cRU US

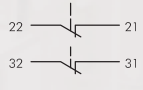
suitable pushbuttons and switches:

Contact material: AgNi **AZ011\_97**

**IP00**  
↓ 6 mm



0 1 2 3 4 5 6  
22/21  
32/31




**Contact block, momentary**  
**2NC**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP4

KEMA EUR 05 TUV SUD cRU US

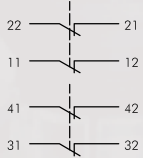
suitable pushbuttons and switches:

Contact material: AgNi **AZ00**  
AgNi, gold-plated **AZ00\_AU**

**IP00**  
↓ 3/6 mm



3mm 0 1 2 3  
6mm 0 1 2 3 4 5 6  
22/21  
11/12  
41/42  
31/32



**Contact block, momentary**  
**4NC**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP8

TUV SUD cRU US

suitable pushbuttons and switches:

Contact material: AgNi **AZ40**

# Contact blocks AZ...

flat-plug connections

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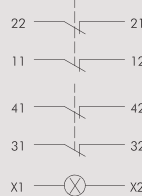
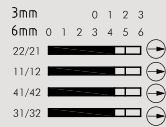
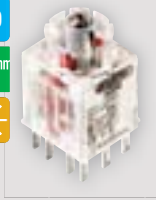
Illustration

Description

Type

IP00

3/6mm



## Illuminated contact block, momentary

**4NC**

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



suitable pushbuttons and switches:

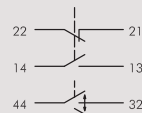
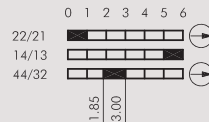


Contact material: AgNi

**AZL40**

IP00

6mm



## Contact block, momentary

**1NC + 1NO + 1centre contact**

Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP8



suitable pushbuttons and switches:



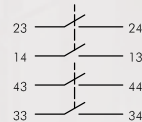
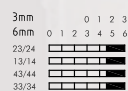
Contact material: AgNi

**AZL11**

AgNi, gold-plated **AZL11\_AU**

IP00

3/6mm



## Contact block, momentary

**4NO**

Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP8



suitable pushbuttons and switches:

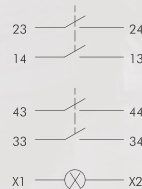
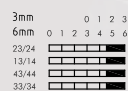


Contact material: AgNi

**AZL4I**

IP00

3/6mm



## Illuminated contact block, momentary

**4NO**

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



suitable pushbuttons and switches:



Contact material: AgNi

**AZL4I**

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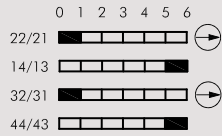
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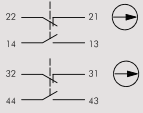
Illustration Description Type

**IP00**

↓ 6mm



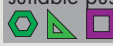




**Contact block, momentary**  
**2NC + 2NO**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP8

**KEMA** **05** **TUV** **us**


suitable pushbuttons and switches:




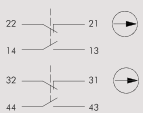
Contact material: AgNi **AZ2**

**IP00**

↓ 3/6mm








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

**KEMA** **05** **TUV** **us**

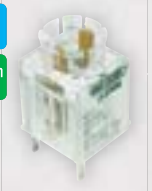
suitable pushbuttons and switches:

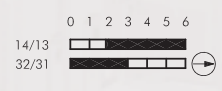


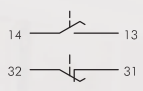
Contact material: AgNi **AZ2N**

**IP00**

↓ 6mm








**Contact block, momentary**  
**1 NO early make + 1 NC late break**  
Faston terminals 2.8x0.8 mm  
suitable plug-in socket XAP8

**KEMA** **05**


suitable pushbuttons and switches:




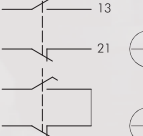
Contact material: AgNi **AZVN**  
AgNi, gold-plated **AZVN\_AU**

**IP00**

↓ 3/6mm








**Momentary contact block for emergency-stops, with failure switch-off \*)**  
**2NC + 1NO**  
Faston terminals 2.8x0.8 mm  
\*) 1 NC, 1 NO and 1 safety circuit, consisting of 1 NC for emergency-stop connected in series with 1 NO, which is always closed during operation but opens automatically once the actuator and contact block are separated from each other.  
suitable plug-in socket XAP8

**KEMA** **05** **TUV** **us**

suitable pushbuttons and switches:



Contact material: AgNi **AZOSI**  
AgNi, gold-plated **AZOSI\_AU**

# Contact blocks AZ...

flat-plug connections

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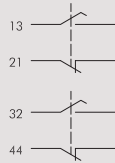
Illustration

Description

Type

IP00

3/6mm



## Momentary contact block for emergency-stops with failure switch-off \*)

### 2NC

Faston terminals 2.8x0.8 mm

\*) 2 safety circuits, consisting of 1 NC for emergency-stop connected in series with 1 NO, which is always closed during operation but opens automatically once the actuator and contact block are separated from each other.

suitable plug-in socket XAP8



suitable pushbuttons and switches:



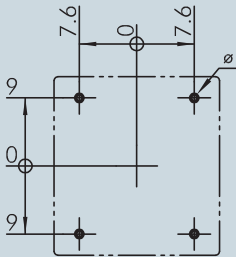
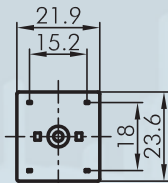
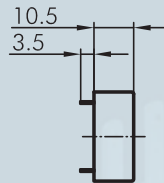
Contact material: AgNi

AZSOSO

AgNi, gold-plated

AZSOSO\_AU

## Zubehör



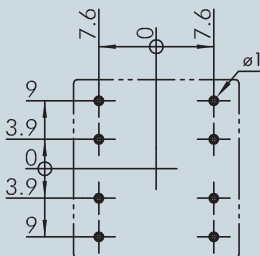
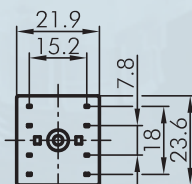
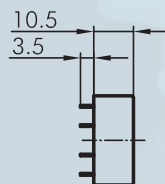
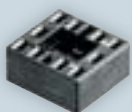
### Steckfassung mit 4 Kontakten

Anschlussart: Printanschluss

suitable contact blocks:



XAP4



### Steckfassung mit 8 Kontakten

Anschlussart: Printanschluss

suitable contact blocks:

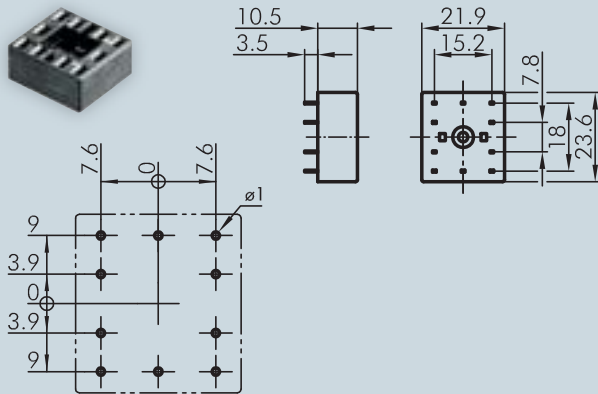


XAP8

Illustration

Description

Type



### Steckfassung mit 10 Kontakten

Anschlussart: Printanschluss

suitable contact blocks:

A AZ B439

XAP10



### Isolierstoffhülse

für Flachsteckhülse FH2,8,  
von vorne aufsteckbar

IH2,8



### Flachsteckhülse 2,8 x 0,8 mm mit Rastzunge

Querschnittsbereich 0,75 - 1,50 mm<sup>2</sup>, Messing verzinkt, mit Rastzunge zum Einrasten in Anschlussstecker XA, XAL und IH2,8

FH2,8



### Double Faston

for the connection of 2 Faston clamps  
FH2.8

FD2,8



### 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

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# Contact blocks AZ...

flat-plug connections

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### 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 %

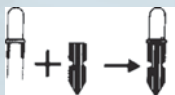
Colour: white **L5,5K24UW**



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

with built-in series resistor  
colour depending on the polarity  
storage temperature:  
-25°C ... +80°C+80°C  
ambient temperature:  
-20°C ... +60°C+60°C  
voltage tolerance  
+ 10 %+ 10 %  
rated current [mA]: 14 13  
brightness [mcd]: 2300 650  
dominant wave length [nm]: 625 525

Colour: red/green **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

suitable contact blocks:



**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**



### 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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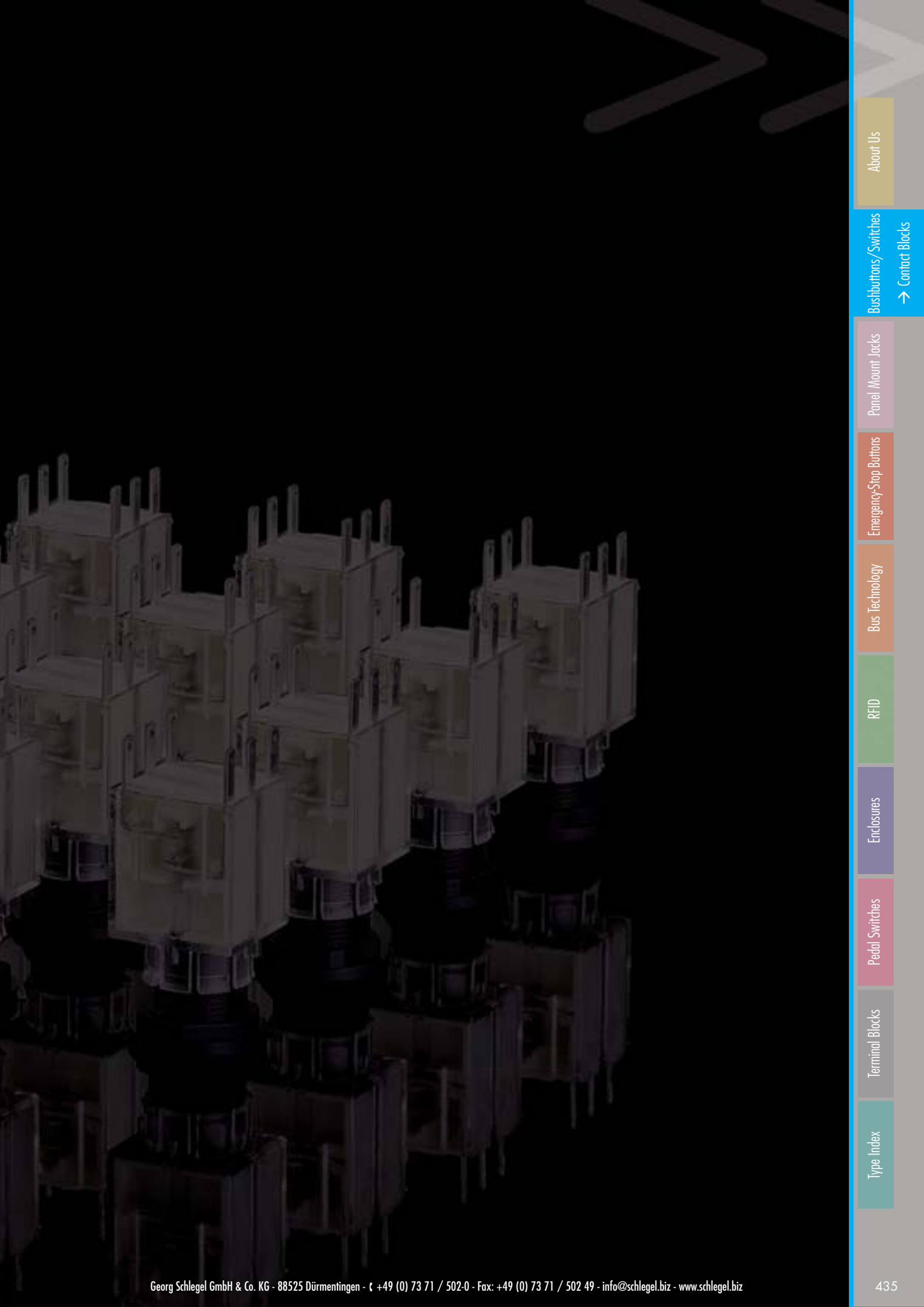
RFD

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