

Electric Contact Blocks with PCB-mounted Terminals

Type	Page	Contact Configuration	Data acc. to VDE 0630		Data acc. to IEC 60947-5-1		Max. Switching Capacity
			Ue	Ie	Ue ~	Ie	
CTP...	486	1 inverter					48V AC/DC 100mA
CZ...	502	1...2 inverters					48V AC/DC 100mA
PT...	518	NC / NO			240V / 120V	1.5A / 3A	120V~ / 3A 240V~ / 1.5A

Electric Contact Blocks with Faston Terminals

Type	Page	Contact Configuration	Data acc. to VDE 0630		Data acc. to IEC 60947-5-1		Max. Switching Capacity
			Ue	Ie	Ue ~	Ie	
AT..., AF...	416	NC/NO	250V~	6(3)A	250V	3A	250V~ / 6(3)A
AZ...	426	NC/late break NC /NO/early make NO /centre contact	250V~	6(4)A	250V	3A	250V~ / 6(4)A
BT..., BF...	434	NC/NO	250V~	6(4)A	250V	1.5A	250V~ / 6(4)A
B..._439	456	2NC/2NO			60V	3A (inductive)	60V~/3A und 60V DC/1A
BZ...	464	NC/NO	250V~	6(4)A	250V	1.5A	250V~/6(4)A
CTF...	494	1 Wechsler					48V AC/DC 100mA
CT...	510	1...2 inverters					48V AC/DC 100mA
PT...	518	NC / NO			240V / 120V	1.5A / 3A	120V~ / 3A 240V~ / 1.5A

Electric Contact Blocks with Screw Connections

Type	Page	Contact Configuration	Data acc. to VDE 0630		Data acc. to IEC 60947-5-1		Max. Switching Capacity
			Ue	Ie	Ue ~	Ie	
BT...K, BF...K	446	NC/NO	250V~	6(4)A	250V	1.5A	250V~ / 6(4)A
BZ...K	476	NC/NO	250V~	6(4)A	250V	1.5A	250V~/6(4)A
ET...	524	NC/NO	250V~ / 440V~	10(6)A / 6(3)A	250V /400V	5A / 3A	250V~ / 10(6)A 440V~ / 6(3)A
MT...	530	NC/late break NC /early make NO /NO-early make NO /early make NO-late break NC/NC- early make NO	250V~ / 440V~	16(10)A / 10(6)A	250V / 440V	3A / 1.6A	250V~ / 16(10)A 440V~ / 10(6)A

Electric Contact Blocks with Spring-Cage Connections

Type	Page	Contact Configuration	Data acc. to VDE 0630		Data acc. to IEC 60947-5-1		Max. Switching Capacity
			Ue	Ie	Ue ~	Ie	
DS...	540	1NC/1NO	250V~ / 400V~	16(10)A / 10(5)A	240V / 380V	3A / 1.9A	250V~ / 16(10)A 400V~ / 10(5)A
DT...	546	NC/late break NC /NO/early make NO	250V~ / 400V~	16(10)A / 10(5)A	240V / 380V	3A / 1.9A	250V~ / 16(10)A 400V~ / 10(5)A

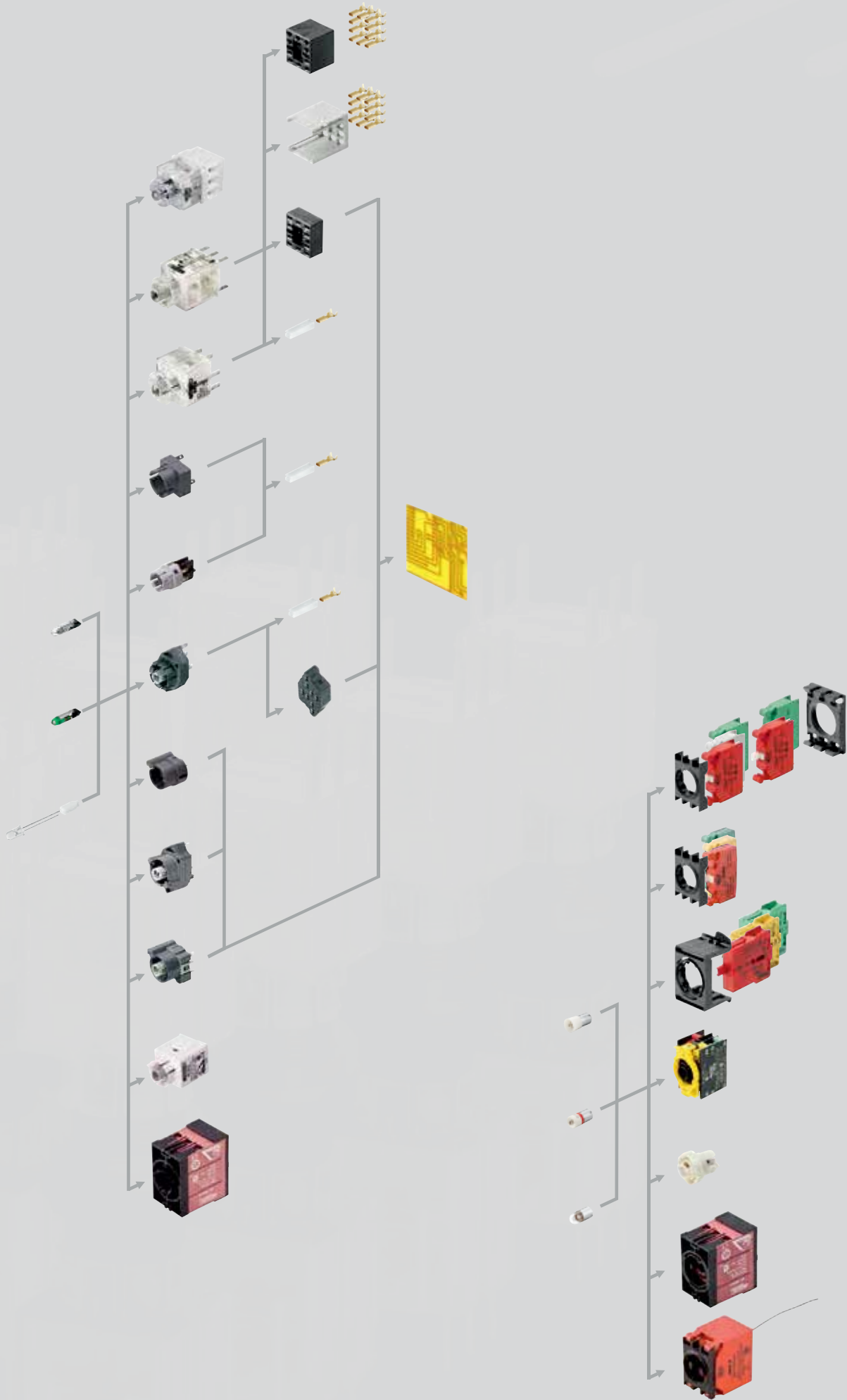
Battery-free Transmitter Modules for Wireless Pushbuttons (pages 570)

The transmitter modules enable the implementation of battery-free radio transmission of a pushbutton signal, particularly in the building and industrial automation, automotive industry and others. The required energy is provided by an electrodynamic power generator using the energy of the key travel (energy harvesting).

Contact Blocks (Slaves) for AS-Interface (pages 552)

Instead of up to 10 cable lines per control unit, ASi requires only two wires which are connected by insulation piercing (IDC technology) and looped through to all the assigned slaves. Up to 62 control units can be connected to one 2-conductor cable. This saves work, cuts installation times, reduces the number of potential errors and the system can be easily changed or expanded as required. Due to the flexible AS-Interface network structure, the Schlegel slaves can be connected to any position. Each control and signalling unit means a separate node in the AS-Interface system with individual address.

The current ratings in brackets refer to the inductive load acc. to EN61058-1.





General Data

Type Reference:	AT..., AF...
Description:	Contact block, positive opening contact
Approvals:	CCC, CSA, ENEC10, VDE, CE, GOST-R, NV, UkrSepro, UR
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, without illumination -30°C ... 55°C, using incandescent lamps -30°C ... 65°C, using LED's
Mechanical life:	1m operations
Electrical life (rated load):	1m operations
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_i :	250 V	300 V
Rated operating voltage U_e :	250V	250V / 125V / 60V / 24V
Rated operating current I_e :	3 A	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(3) A

Technical Data - Lamp

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

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


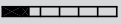
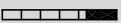
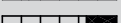
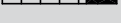




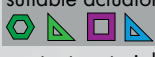

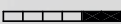
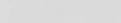


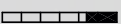

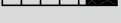
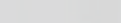
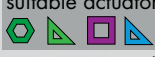


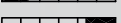
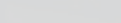


Notice for emergency-stop contact blocks:

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.

Contact Blocks


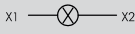
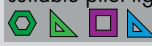

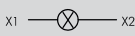


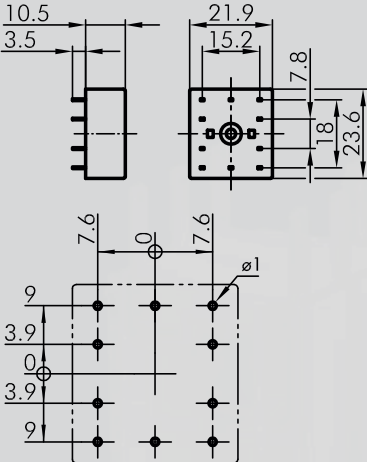

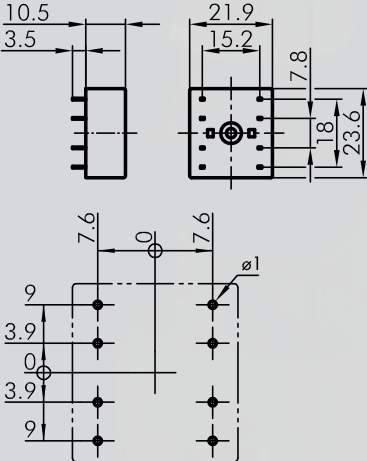
Faston terminals 2.8x0.8 mm

Illustration	Description	Type
<p>0 1 2 3 4 5 6</p> <p>22/21 14/13</p>	<p>Contact Block, momentary 1NC + 1NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP4</p> <p>suitable actuators</p> <p>contact material AgNi AT</p> <p>contact material AgNi, gold-plated AT_AU</p>	
<p>0 1 2 3 4 5 6</p> <p>22/21 14/13</p>	<p>Illuminated Contact Block, momentary 1NC + 1NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP6 lamp socket T5,5K</p> <p>suitable actuators</p> <p>contact material AgNi ATL</p> <p>contact material AgNi, gold-plated ATL_AU</p>	
<p>0 1 2 3 4 5 6</p> <p>14/13</p>	<p>Contact Block, momentary 1NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP4</p> <p>suitable actuators</p> <p>contact material AgNi ATI</p> <p>contact material AgNi, gold-plated ATI_AU</p>	
<p>0 1 2 3 4 5 6</p> <p>22/21</p>	<p>Contact Block, momentary 1NC</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP4</p> <p>suitable actuators</p> <p>contact material AgNi ATO</p> <p>contact material AgNi, gold-plated ATO_AU</p>	
<p>0 1 2 3 4 5 6</p> <p>22/21 14/13 32/31 44/43</p>	<p>Contact Block, momentary 2NC + 2NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP8</p> <p>suitable actuators</p> <p>contact material AgNi AT2</p> <p>contact material AgNi, gold-plated AT2_AU</p>	

Illustration	Description	Type
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>22/21 </p> <p>14/13 </p> <p>32/31 </p> <p>44/43 </p> <p>22 — 21</p> <p>14 — 13</p> <p>32 — 31</p> <p>44 — 43</p> <p>X1 — X2</p>	<p>Illuminated Contact Block, momentary 2NC + 2NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP10 lamp socket T5,5K</p> <p>suitable actuators </p> <p>contact material AgNi ATL2</p> <p>contact material AgNi, gold-plated ATL2_AU</p>	
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>22/21 </p> <p>14/13 </p> <p>22 — 21</p> <p>14 — 13</p>	<p>Contact Block, maintained 1NC + 1NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP4</p> <p>suitable actuators </p> <p>contact material AgNi AF</p> <p>contact material AgNi, gold-plated AF_AU</p>	
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>22/21 </p> <p>14/13 </p> <p>22 — 21</p> <p>14 — 13</p> <p>X1 — X2</p>	<p>Illuminated Contact Block, maintained 1NC + 1NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP6 lamp socket T5,5K</p> <p>suitable actuators </p> <p>contact material AgNi AFL</p> <p>contact material AgNi, gold-plated AFL_AU</p>	
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>22/21 </p> <p>14/13 </p> <p>32/31 </p> <p>44/43 </p> <p>22 — 21</p> <p>14 — 13</p> <p>32 — 31</p> <p>44 — 43</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 AF2</p> <p>contact material AgNi, gold-plated AF2_AU</p>	
 <p>16mm</p> <p>0 1 2 3 4 5 6</p> <p>22/21 </p> <p>14/13 </p> <p>32/31 </p> <p>44/43 </p> <p>22 — 21</p> <p>14 — 13</p> <p>32 — 31</p> <p>44 — 43</p> <p>X1 — X2</p>	<p>Illuminated Contact Block, maintained 2NC + 2NO</p> <p>Faston terminals 2.8x0.8 mm suitable plug-in socket XAP10 lamp socket T5,5K</p> <p>suitable actuators </p> <p>contact material AgNi AFL2</p> <p>contact material AgNi, gold-plated AFL2_AU</p>	

Contact Blocks

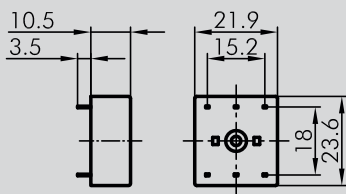
Faston terminals 2.8x0.8 mm

Illustration	Description	Type
 	<p>Lampholder Faston terminals 2.8x0.8 mm suitable plug-in socket XAP2 lamp socket T5,5K</p> <p>suitable pilot light heads</p> 	<p>AL5</p>
 	<p>Lampholder Faston terminals 2.8x0.8 mm lamp socket T5,5K</p> <p>suitable pilot light heads</p> 	<p>L5</p>
 	<p>Plug-in Socket with 10 pins</p>	<p>XAP10</p>
 	<p>Plug-in Socket with 8 pins</p>	<p>XAP8</p>

Illustration

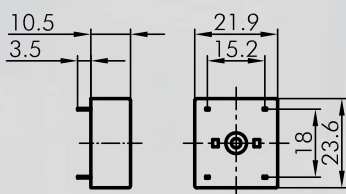
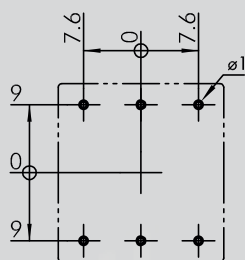
Description

Type



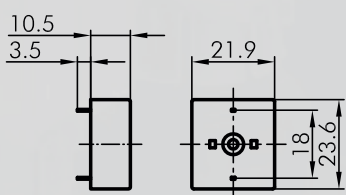
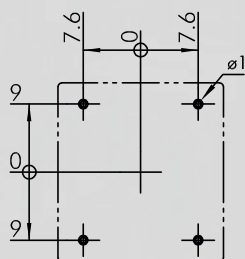
Plug-in Socket
with 6 pins

XAP6



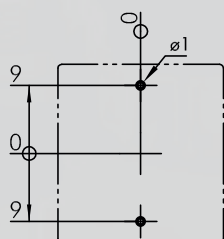
Plug-in Socket
with 4 pins

XAP4



Plug-in Socket
with 2 pins
fits the lampholders

XAP2



Control Units
Emergency Brakes

Bus Technology

Relays

Limit Switches

Plug-in Sockets

Terminal Blocks

Contact Blocks

Faston terminals 2.8x0.8 mm















Illustration	Description	Type										
	Socket, finger-protected acc. to BGV4 for simultaneous connection of all terminals of a contact block (A.../B... series), accepts up to 10 Faston clamps FH2,8	XA										
	Protective Plug finger-protected acc. to BGV A3, accepts Faston clamps FH2.8	XAL										
	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 , brass, with pin to snapfit into the socket XA, XAL and the insulating case IH2.8	FH2,8										
	Double Faston for the connection of 2 Faston clamps FH2.8	FD2,8										
	Protective Cover finger-protected acc. to BGV A3, for contact blocks of the A.../B...series. Mount the cover before wiring.	XAI										
	Ultra-bright LED, T5,5K socket - 12V with integrated series resistor and single-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	<table border="0"> <tr> <td>blue</td> <td>L5,5K12UB</td> </tr> <tr> <td>green</td> <td>L5,5K12UG</td> </tr> <tr> <td>red</td> <td>L5,5K12UR</td> </tr> <tr> <td>white</td> <td>L5,5K12UW</td> </tr> <tr> <td>yellow</td> <td>L5,5K12UY</td> </tr> </table>	blue	L5,5K12UB	green	L5,5K12UG	red	L5,5K12UR	white	L5,5K12UW	yellow	L5,5K12UY
blue	L5,5K12UB											
green	L5,5K12UG											
red	L5,5K12UR											
white	L5,5K12UW											
yellow	L5,5K12UY											

Illustration	Description	Type																		
	<p>Ultra-bright LED, T5.5K socket - 24V with integrated series resistor and single-wave rectifier for 24V 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>	<table border="0"> <tr><td>colour</td><td>blue</td><td>L5,5K24UB</td></tr> <tr><td></td><td>green</td><td>L5,5K24UG</td></tr> <tr><td></td><td>red</td><td>L5,5K24UR</td></tr> <tr><td></td><td>white</td><td>L5,5K24UW</td></tr> <tr><td></td><td>yellow</td><td>L5,5K24UY</td></tr> </table>	colour	blue	L5,5K24UB		green	L5,5K24UG		red	L5,5K24UR		white	L5,5K24UW		yellow	L5,5K24UY			
colour	blue	L5,5K24UB																		
	green	L5,5K24UG																		
	red	L5,5K24UR																		
	white	L5,5K24UW																		
	yellow	L5,5K24UY																		
	<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>Dom. wavelength: [nm]</td><td>625</td><td>525</td></tr> <tr><td>colour</td><td colspan="2">red/green</td></tr> <tr><td></td><td></td><td>L5,5K24RG</td></tr> </table>	Colour:	red	green	Rated current [mA]:	14	13	Brightness [mcd]:	2300	650	Dom. wavelength: [nm]	625	525	colour	red/green				L5,5K24RG
Colour:	red	green																		
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Dom. wavelength: [nm]	625	525																		
colour	red/green																			
		L5,5K24RG																		
	<p>Ultra-bright LED solder pins, grid 2.54 mm ready-made for CTP_485</p> <table border="0"> <tr><td>900 mcd</td><td>blue</td><td>LED3UB</td></tr> <tr><td>1800 mcd</td><td>red</td><td>LED3UR</td></tr> <tr><td>3680 mcd</td><td>white</td><td>LED3UW</td></tr> <tr><td>1800 mcd</td><td>yellow</td><td>LED3UY</td></tr> <tr><td>2760 mcd</td><td>green</td><td>LED3UG</td></tr> </table>	900 mcd	blue	LED3UB	1800 mcd	red	LED3UR	3680 mcd	white	LED3UW	1800 mcd	yellow	LED3UY	2760 mcd	green	LED3UG				
900 mcd	blue	LED3UB																		
1800 mcd	red	LED3UR																		
3680 mcd	white	LED3UW																		
1800 mcd	yellow	LED3UY																		
2760 mcd	green	LED3UG																		
		<p>LED Adapter for LED's of 3 and 5 mm Ø to be used in T5.5K sockets, an external resistor must be provided.</p> <table border="0"> <tr><td>Lampholder</td><td>T5,5K</td></tr> </table>	Lampholder	T5,5K	LA5,5															
Lampholder	T5,5K																			

Contact Blocks

Faston terminals 2.8x0.8 mm

Illustration	Description	Type
	<p>Incandescent Lamp with T5.5K socket</p> <p>6V / 1,2W (200mA) T5,5K-6V 12V / 1,2W (100mA) T5,5K-12V 24V / 1,2W (50mA) T5,5K-24V 30V / 1,2W (40mA) T5,5K-30V 36V / 1,2W (35mA) T5,5K-36V 48V / 1,2W (25mA) T5,5K-48V 60V / 1,2W (20mA) T5,5K-60V</p>	
	<p>Series Condensator (RC combination) entirely sealed, with a safe-to-touch Faston terminal 2.8 x 0.8 mm and one partially insulated Faston clamp 2.8 x 0.8 mm, for the operation of incandescent lamps: 48 V (25 mA) at 240 V ~ 50 Hz 130 V (20 mA) at 240 V ~ 50 Hz</p>	VC1
	<p>Potential Divider (for incandescent lamps) Faston terminals 2.8x0.8 mm to operate an incandescent lamp 60V (25mA) at 230V~ 50Hz</p>	VE_1
	<p>Potential Divider (for LED's) Faston terminals 2.8x0.8 mm to operate a LED at 230V AC</p>	VE_LED230
	<p>Cable Set with Faston connections suitable for VE_1 and VE_LED230</p>	VE_VK2,8
	<p>Cable Set with wire end ferrules suitable for VE_1 and VE_LED230</p>	VE_VKAE



Index

Mounting

Control Units
Control Blocks

Bus Technology

Terminal

Limit Switches

Power Supplies

Terminal Blocks