



General Data

Type Reference:	CTP...
Description:	Electronic Contact block, PCB-mount terminals, with snap action
Approvals:	CCC, cCSAus, NV, CE
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	PCB-mount terminals
Contact material:	gold-plated 1.5µm
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
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

Technical Data - Lamp

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

Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

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

	alternate current	direct current
Utilisation category:	AC12	DC12
Rated insulation voltage Ui:	60V	60V
Rated operating voltage Ue:	48V	48V
Rated operating current Ie:	0.1A	0.1A
Continuous thermal current:	100mA	100mA

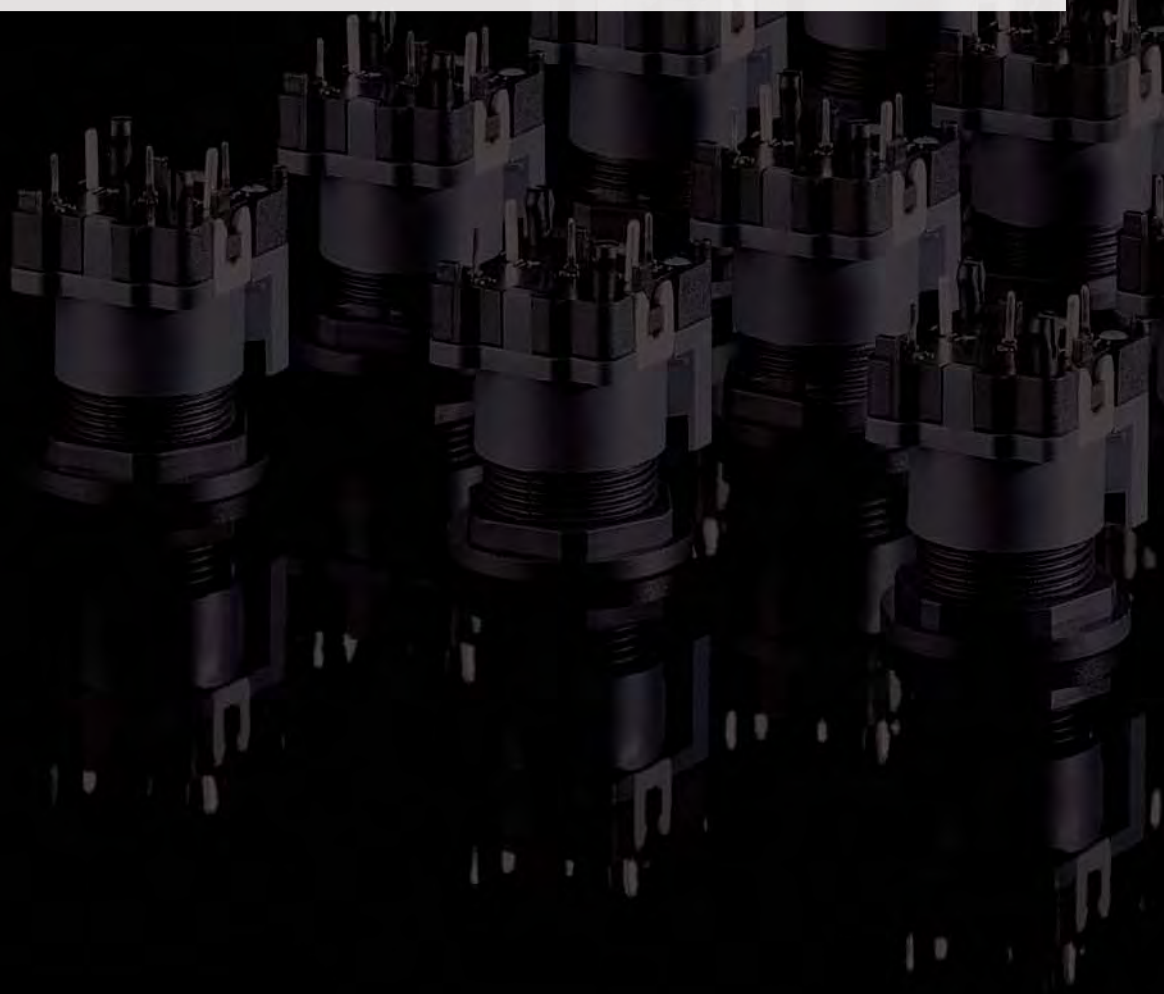
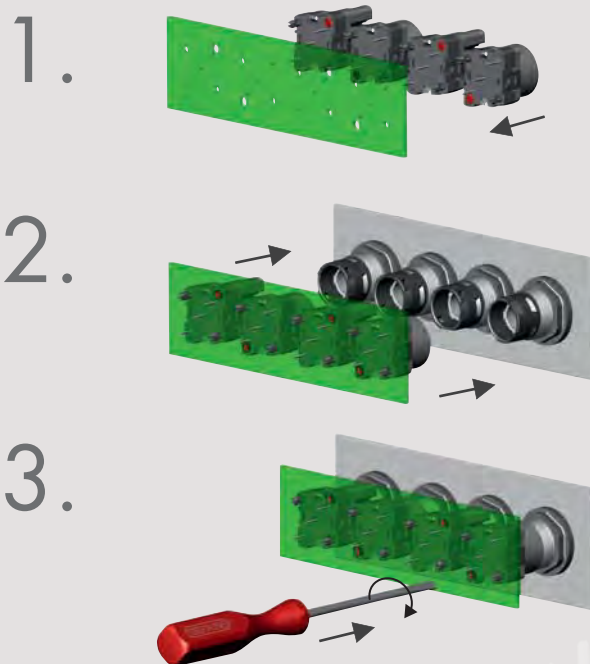
Remark

GB14048.5-2008 (IEC60947-5-1)

Elektrische Daten nach C22.2 No. 14-10

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

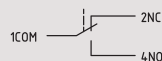
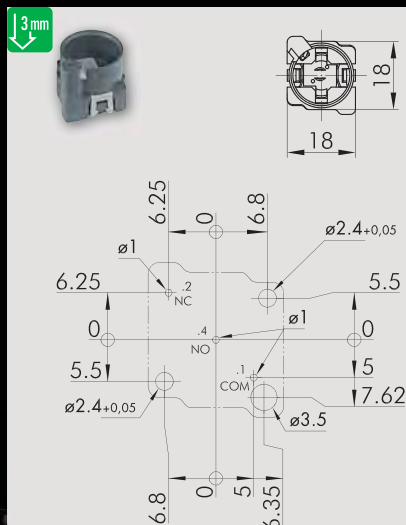
Mounting Instructions



Illustration

Description

Type



Contact Unit, momentary 1 inverter

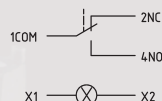
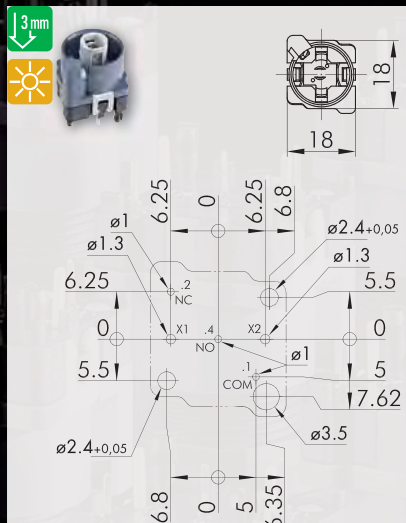
PCB-mount terminals
2 holes allow direct soldering of an LED
into the PCB

suitable actuators



contact material gold-plated 1.5µm

CTP_485



Illuminated Contact Unit, momentary 1 inverter

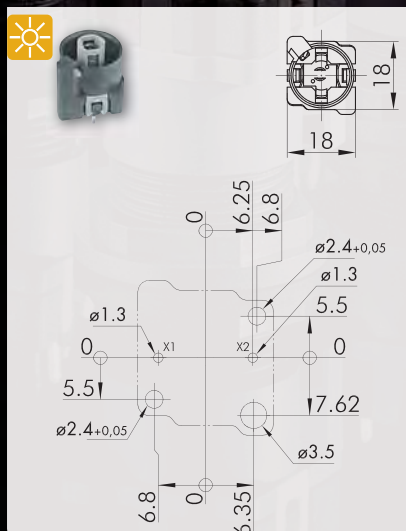
PCB-mount terminals
lamp socket T5,5K

suitable actuators



contact material gold-plated 1.5µm

CTLP_485



Lampholder

PCB-mount terminals
lamp socket T5,5K

suitable pilot light heads



CLP_485

Contact Blocks

screw connection

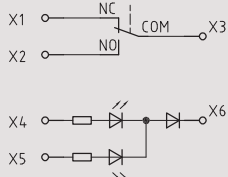
made in germany



Illustration

Description

Type



Contact Unit, momentary, with 2-colour LED red/green 1 inverter

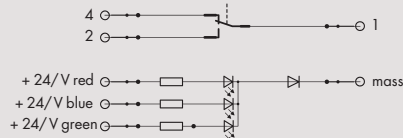
screw connection

suitable actuators



contact material gold-plated 1.5µm

CTFS_24R_G



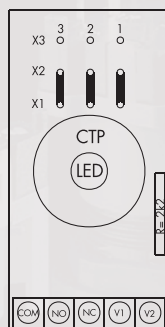
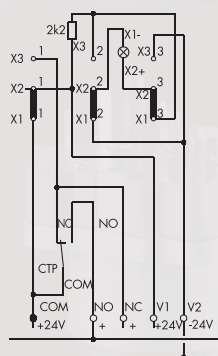
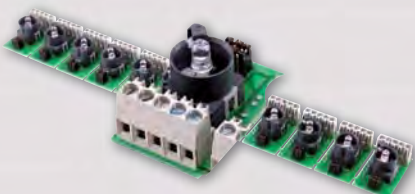
Contact Unit, momentary, incl. RGB LED 1 inverter

screw connection

suitable actuators



CTFS_24RGB



Assembled PCB Strips

screw connection

specifically designed for the elevator industry, with 12 illuminated electronic contact units (snap action type). Plug-in bridge connectors allow easy change-over from positive to negative logic. The strips can easily be separated as required. The power supply lines are guided through the predetermined breaking points.

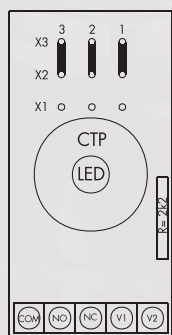
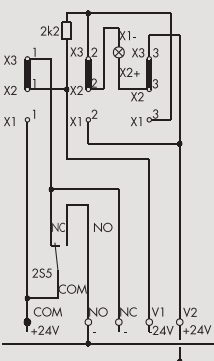
Each pushbutton is assigned a full set of terminals.

For technical data of the contact unit, refer to type CTLP

suitable actuators



PCD3012



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

Illustration

Description

Type



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



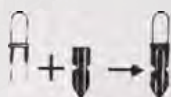
Ultra-bright LED

solder pins, grid 2.54 mm
ready-made for CTP_485

3680 mcd

white

LED3UW



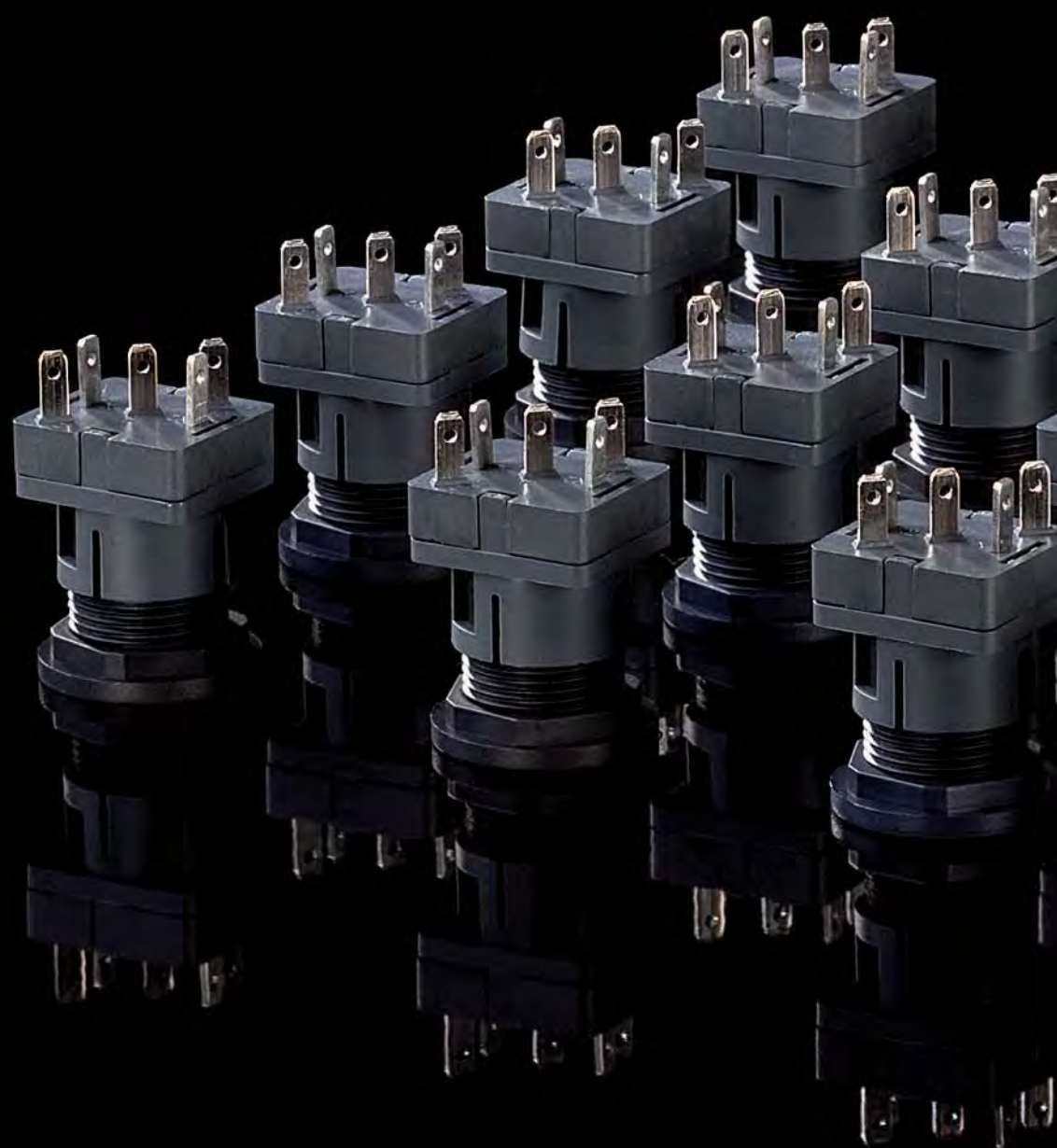
LED Adapter

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



General Data

Type Reference:	CTLF, CTF, CTLF_250, CTF_250
Description:	Illuminated Electronic Contact Block with snap action
Approvals:	cCSAus, CE
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	Faston terminals 2.8x0.8 mm
Contact material:	gold-plated 1.5µm
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
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

Technical Data - Lamp

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

Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

Electrical Data acc. to EN 61058-1 "micro disconnection", µ

Rated voltage:	250V~
Rated current:	max. 100 mA
Contact opening distance:	< 3 mm (µ)
Creepage resistance:	II / PTI 400V
Insulation resistance:	> 100 MOhm/500 V
Test voltage:	500V (61058-1 Tab.12)
Pollution degree :	2
Electrical life (additional test):	50000

Note

types CTLF_250, CTF_250

The applicability of the "micro disconnection" (µ) acc. to EN 61058-1 is regulated in the relative product standards which have to be observed by the customer (product designer).

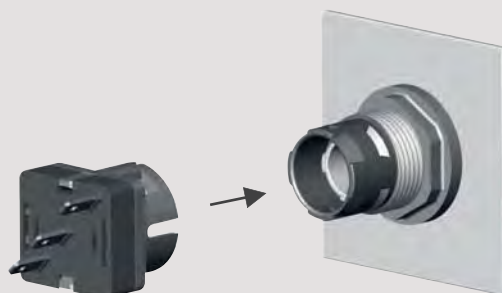
Faston terminals 2.8x0.8mm are not suitable for manual soldering.

Elektrische Daten nach C22.2 No. 14-10

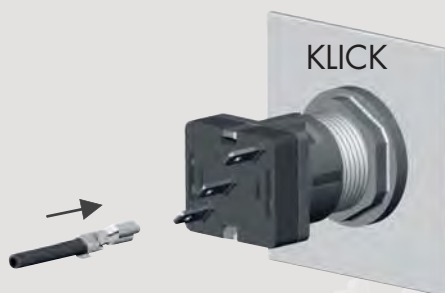
Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

Mounting Instructions

1.



2.



3.

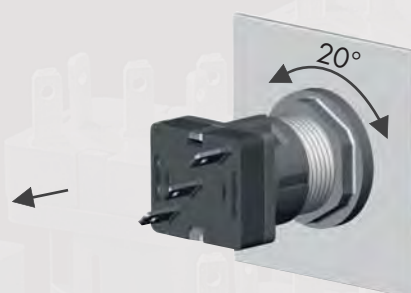
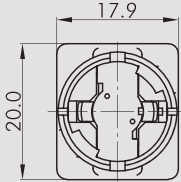
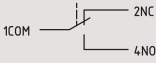
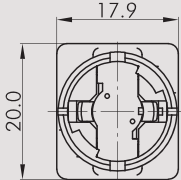
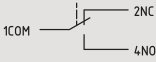
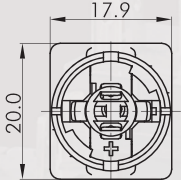
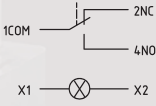
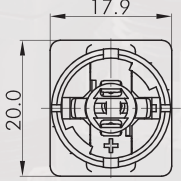
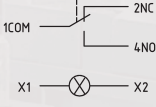
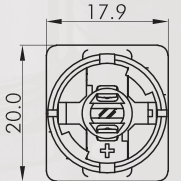
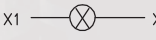


Illustration	Description	Type
   	Contact Unit, momentary 1 inverter Faston terminals 2.8x0.8 mm suitable actuators  contact material gold-plated 1.5µm	CTF
   	Contact Unit, momentary, for 250V~ 1 inverter Faston terminals 2.8x0.8 mm EN 61058-1 µ 250V~/100mA, µ micro-disconnection (µ) suitable actuators  contact material gold-plated 1.5µm	CTF_250
   	Illuminated Contact Unit, momentary 1 inverter Faston terminals 2.8x0.8 mm lamp socket T5,5K suitable actuators  contact material gold-plated 1.5µm	CTLF
   	Illuminated Contact Unit, momentary, for 250V~ 1 inverter Faston terminals 2.8x0.8 mm EN 61058-1 µ 250V~/100mA, µ micro-disconnection (µ) LED max. 60V lamp socket T5,5K suitable actuators  contact material gold-plated 1.5µm	CTLF_250
   	Lampholder Faston terminals 2.8x0.8 mm lamp socket T5,5K suitable pilot light heads 	CLF
	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

Contact Blocks

Faston terminals 2.8x0.8 mm

made in germany



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Double Faston

for the connection of 2 Faston clamps
FH2.8

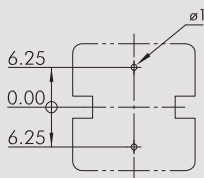
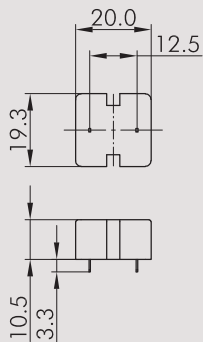
FD2,8



Plug-in Socket

PCB-mount terminals
with 2 contact pins to fit CLF lampholder

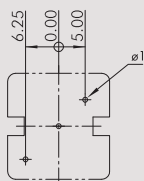
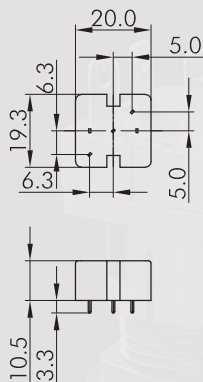
CAFP2



Plug-in Socket

PCB-mount terminals
with 3 contact pins to fit CTF contact unit

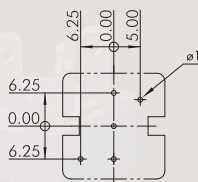
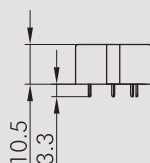
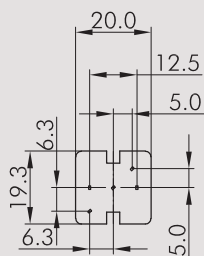
CAFP3



Illustration

Description

Type



Plug-in Socket

CAFP5

PCB-mount terminals
with 5 contact pins to fit CTLF contact
unit



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

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Contact Blocks

Faston terminals 2.8x0.8 mm

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

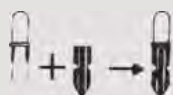
colour red/green **L5,5K24RG**



Ultra-bright LED

solder pins, grid 2.54 mm
ready-made for CTP_485

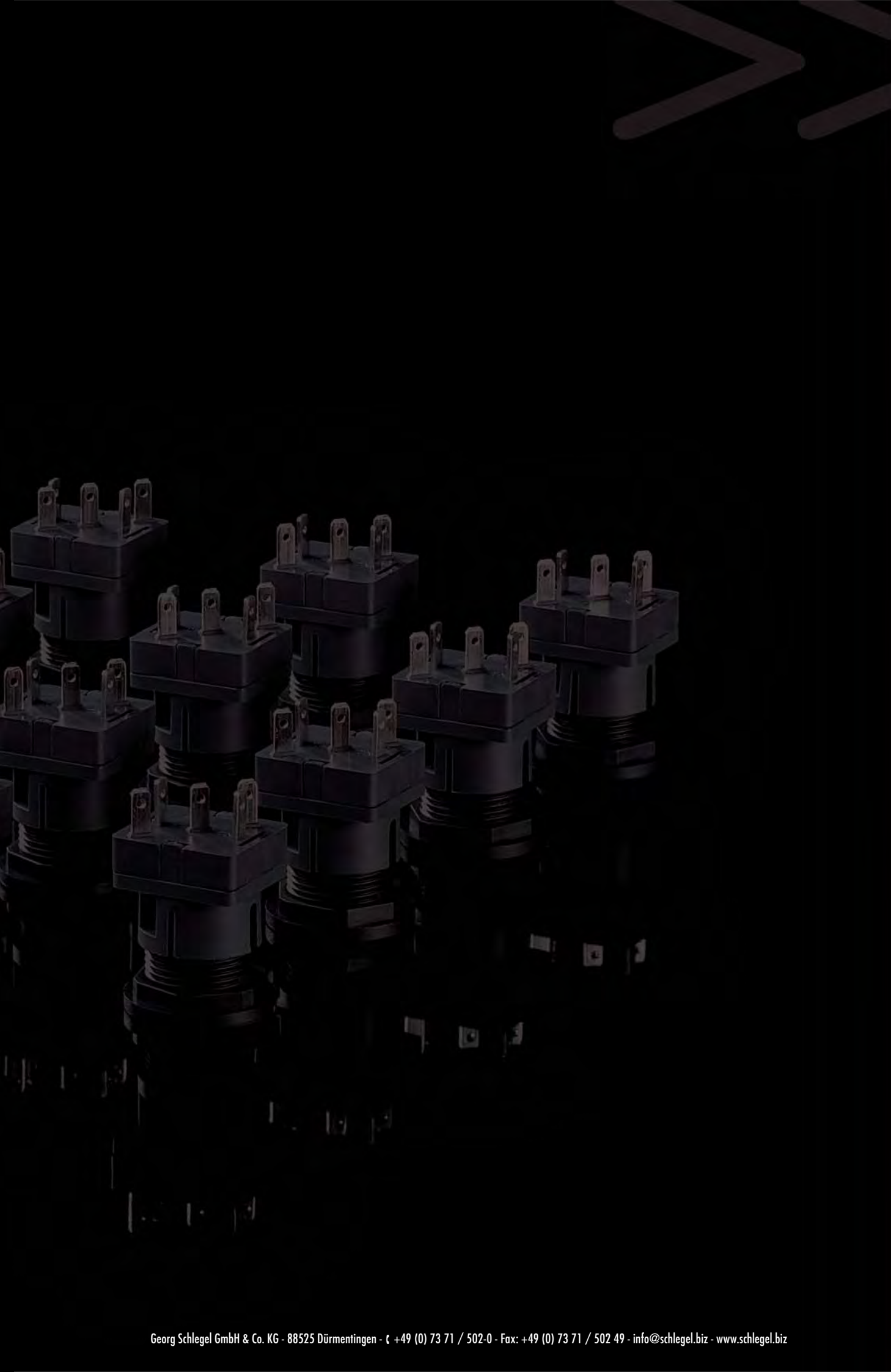
3680 mcd white **LED3UW**



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**



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General Data

Type Reference:	CZ...
Description:	Electronic Contact Block with snap action
Approvals:	CCC, cCSAus, NV, CE
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	PCB-mount terminals
Contact material:	gold-plated 1.5µm
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
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

Technical Data - Lamp

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

Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

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

	alternate current	direct current
Utilisation category:	AC12	DC12
Rated insulation voltage Ui:	60V	60V
Rated operating voltage Ue:	48V	48V
Rated operating current Ie:	0.1A	0.1A
Continuous thermal current:	100mA	100mA

Remark

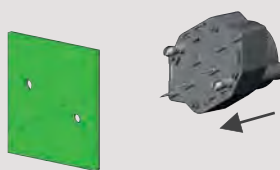
GB14048.5-2008 (IEC60947-5-1)

Elektrische Daten nach C22.2 No. 14-10

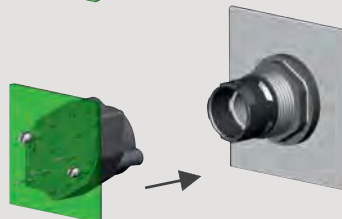
Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

Mounting Instructions

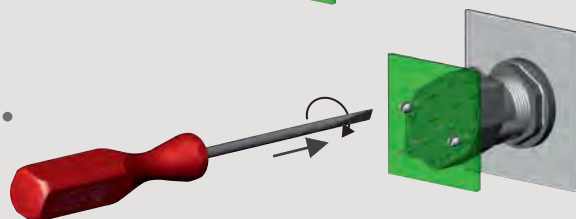
1.



2.



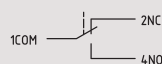
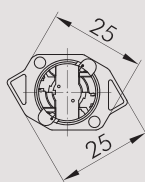
3.



Illustration

Description

Type



Contact Unit, momentary 1 inverter

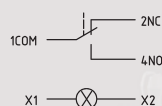
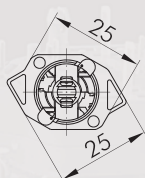
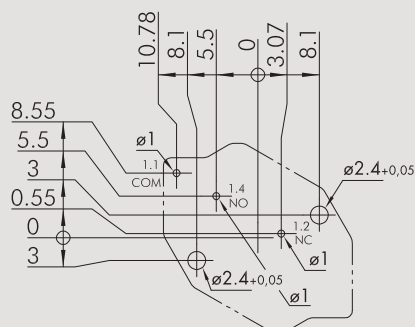
PCB-mount terminals
can only be combined with the contact
units PTP... and C..._485

suitable actuators



contact material gold-plated 1.5µm

CZTP



Illuminated Contact Unit, momentary 1 inverter

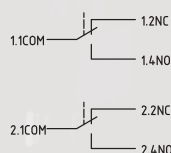
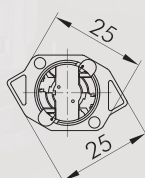
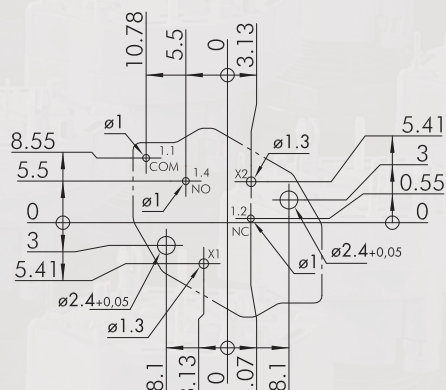
PCB-mount terminals
can only be combined with the contact
units PTP... and C..._485
lamp socket T5,5K

suitable actuators



contact material gold-plated 1.5µm

CZTLP



Contact Unit, momentary 2 inverters

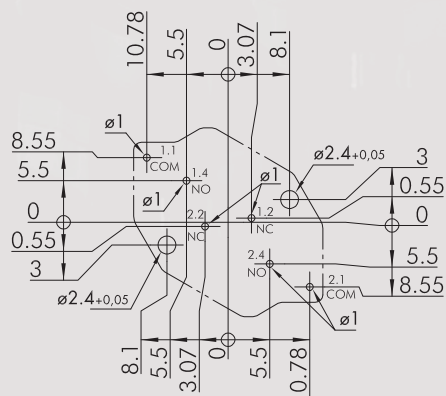
PCB-mount terminals
2 independent single-circuit inverters,
can only be combined with the contact
units PTP... and C..._485

suitable actuators



contact material gold-plated 1.5µm

CZTP2



PCB-mount terminals

made in germany



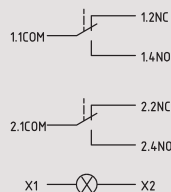
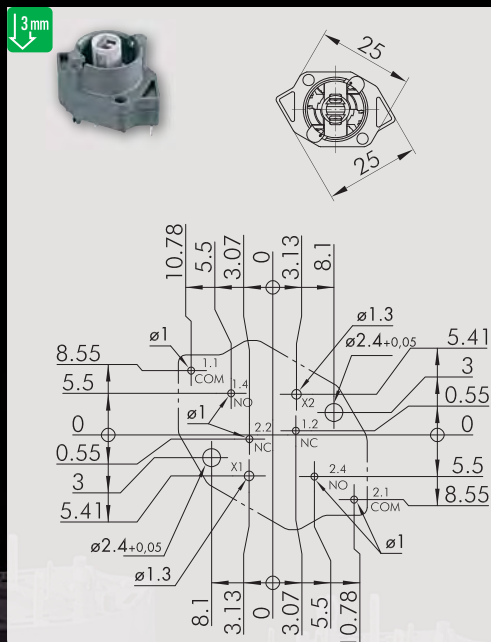
Type Index

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Illustration

Description

Type



Illuminated Contact Unit with two-piece plunger 2 inverters

PCB-mount terminals
2 independent single-circuit inverters can only be combined with the contact units PTP... and C..._485

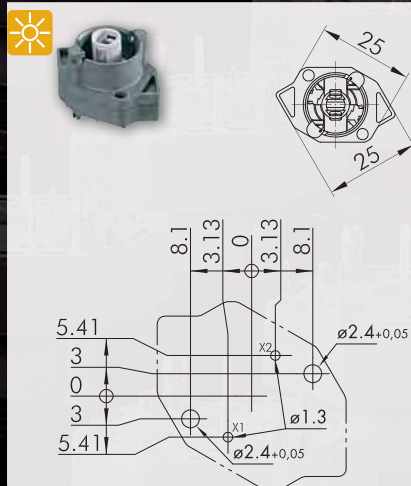
lamp socket T5,5K

suitable actuators



contact material gold-plated 1.5µm

CZTLP2_549



Lampholder

CZLP

PCB-mount terminals
can only be combined with the contact units PTP... and C..._485
lamp socket T5,5K

suitable pilot light heads



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

Contact Blocks

PCB-mount terminals

made in germany



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Illustration

Description

Type



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



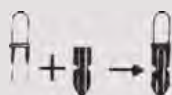
Ultra-bright LED

solder pins, grid 2.54 mm
ready-made for CTP_485

3680 mcd

white

LED3UW



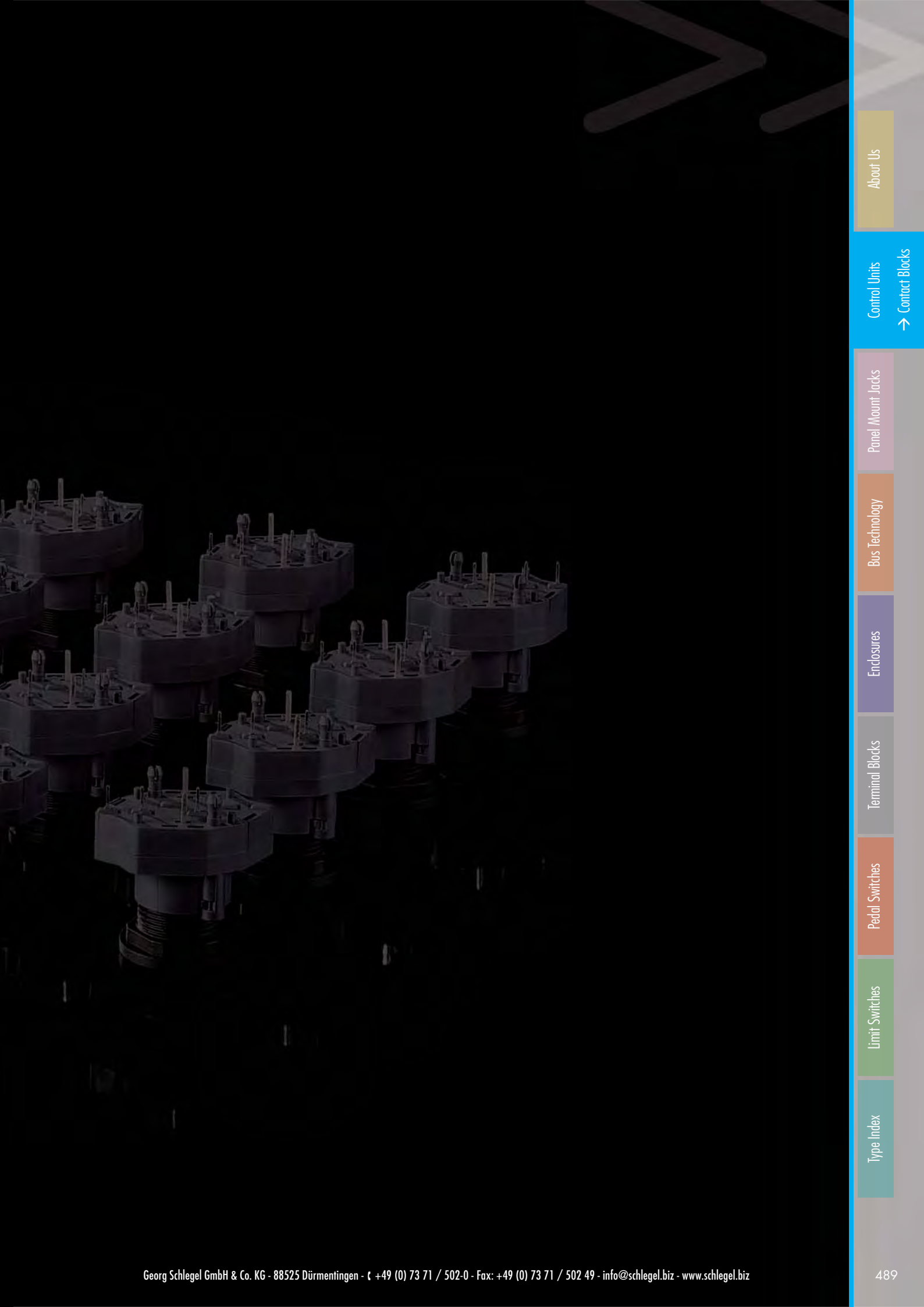
LED Adapter

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



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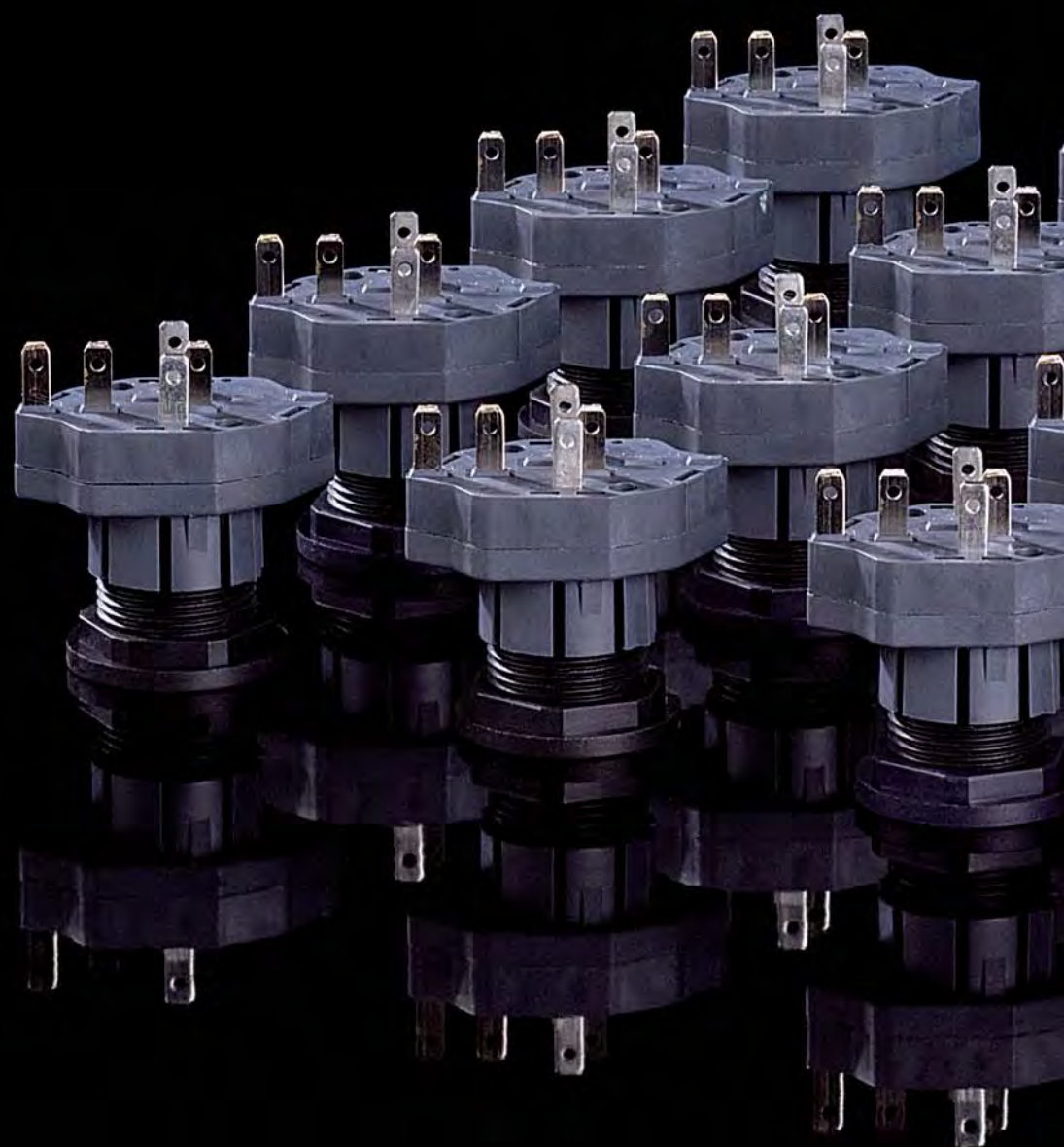
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General Data

Type Reference:	CT...
Description:	Electronic Contact Block with snap action
Approvals:	CCC, cCSAus, NV, CE
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	Faston terminals 2.8x0.8 mm
Contact material:	gold-plated 1.5µm
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
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

Technical Data - Lamp

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

Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

Note

Faston terminals 2.8x0.8mm are not suitable for manual soldering.

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

	alternate current	direct current
Utilisation category:	AC12	DC12
Rated insulation voltage Ui:	60V	60V
Rated operating voltage Ue:	48V	48V
Rated operating current Ie:	0.1A	0.1A
Continuous thermal current:	100mA	100mA

Remark

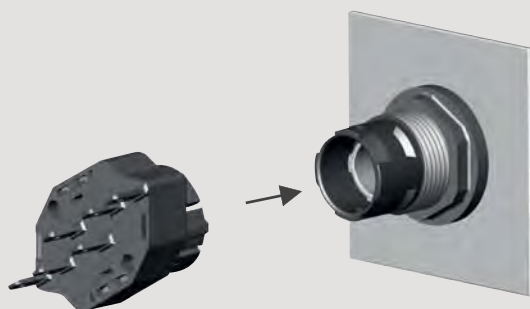
GB14048.5-2008 (IEC60947-5-1)

Elektrische Daten nach C22.2 No. 14-10

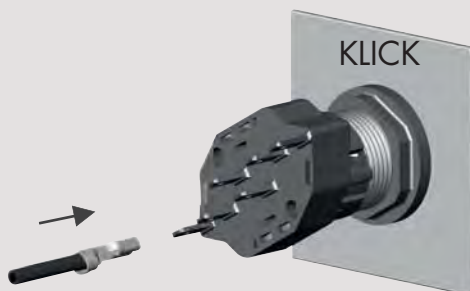
Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

Mounting Instructions

1.



2.



3.

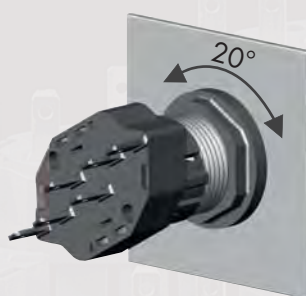
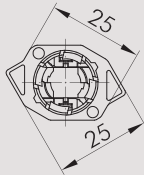
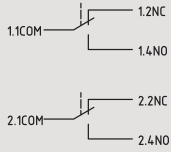
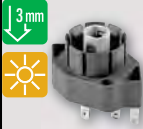
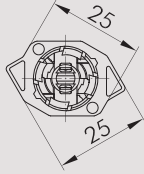
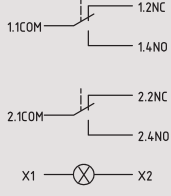
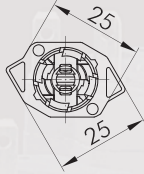
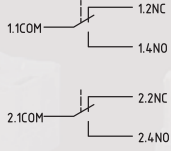
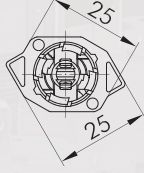
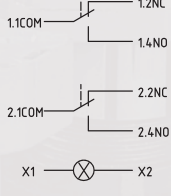


Illustration	Description	Type
  	Contact Unit, momentary 2 inverters Faston terminals 2.8x0.8 mm 2 independent single-circuit inverters suitable plug-in socket CAP6 suitable actuators  contact material gold-plated 1.5µm	CT2
  	Illuminated Contact Unit, momentary 2 inverters Faston terminals 2.8x0.8 mm 2 independent single-circuit inverters suitable plug-in socket CAP6 lamp socket T5,5K suitable actuators  contact material gold-plated 1.5µm	CTL2
  	Contact Unit with two-piece plunger, momentary 2 inverters Faston terminals 2.8x0.8 mm 2 independent single-circuit inverters suitable plug-in socket CAP6 suitable actuators  contact material gold-plated 1.5µm	CT2_549
  	Illuminated Contact Block with separate plungers, momentary 2 inverters Faston terminals 2.8x0.8 mm 2 independent single-circuit inverters suitable plug-in socket CAP6 lamp socket T5,5K suitable actuators  contact material gold-plated 1.5µm	CTL2_549

Faston terminals 2.8x0.8 mm

made in germany



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Illustration

Description

Type

Plug-in Socket

PCB-mount terminals
with 8 contact pins to fit CTL2 contact
unit

CAP8

Plug-in Socket

PCB-mount terminals
with 6 contact pins to fit CT2 contact unit

CAP6

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

Illustration

Description

Type



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



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



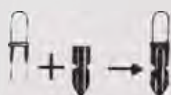
Ultra-bright LED

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