

# **Technical data sheet Contrast sensor**

Part no.: 50148492

KRT3CM.L3S2/4T-M8



#### Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
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- Accessories













## **Technical data**



Basic data		
Series	3C	
Special version		
Special version	Teach input	
	Time function	
Optical data		
Operating range	14.5 mm ± 2 mm	
Beam path	Focused	
Light source	LED, RGB	
Wavelength	B: 470 nm	
	G: 525 nm	
To a series de la contrata del contrata del contrata de la contrata del contrata de la contrata de la contrata del contrata de la contrata del c	R: 640 nm	
Transmitted-signal shape	Pulsed	
LED group	Exempt group (in acc. with EN 62471)	
Light spot size [at sensor distance] Light spot orientation	1.5 mm x 4 mm [14.5 mm] Vertical	
Type of light spot geometry	Rectangular	
Light beam exit	Front	
Focus	Fixed	
1 0003	Tixed	
Measurement data		
Repeatability	0.02 mm	
Electrical data		
Protective circuit	Polarity reversal protection	
	Short circuit protected	
Performance data		
Supply voltage U <sub>R</sub>	12 30 V, DC, Incl. residual ripple	
Residual ripple	0 15 %, From U <sub>B</sub>	
Open-circuit current	0 25 mA	
Inputs		
Number of teach inputs	1 Piece(s)	
Teach inputs		
Voltage type	DC	
Switching voltage	high: ≥8V	
0 0	low: ≤ 2 V or not connected	
Delay	10 ms	
Input resistance	15,000 Ω	
Teach input 1		
Function	Keyboard lockout	
	Setting the pulse stretching	
A athre and tale in a state	Teach-in	
Active switching state	High	
Teach process	Static 2-point	
Outputs		
Number of digital switching outputs	1 Piece(s)	
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Switching outputs		
Voltage type	DC	
Switching current, max.	100 mA	
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Switching output 1 Assignment Switching element Switching principle Light switching  Time behavior  Switching frequency Response time 0.05 ms Readiness delay Response jitter  Connection  Connector  Treach input Voltage supply Type of connection  Connector  Thread size M8 Type Male Material Metal No. of pins  4 -pin  Mechanical data  Design  Cubic  Dimension (W x H x L) 11.4 mm x 34.2 mm x 18.3 mm  Housing material Plastic Plastic Plastic PMA  Not weight 10 g Housing color Red Type of fastening Via optional mounting device Compatibility of materials  Conperation and display  Type of display  LED  Operation and display  LED  Operation and display  LED  Compatibility of materials  Ecoluble  Environmental data  Ambient temperature, operation  Ambient temperature, operation  Ambient temperature, storage  Protection class III  Approvals  Cull US				
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Approvals c UL US		1	IP 69K	
••				
Standards applied EN IEC 60947-5-2	Standards applied		EN IEC 60947-5-2	

high: ≥(U<sub>B</sub>-2V) low: ≤ 2 V

Switching voltage

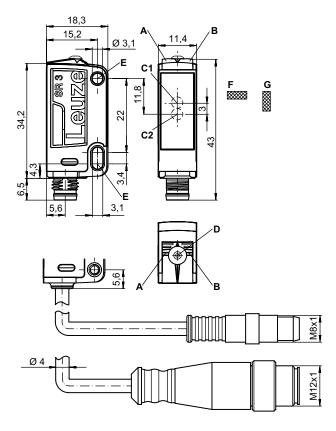
## **Technical data**



Customs tariff number	85365019
ECLASS 5.1.4	27270906
ECLASS 8.0	27270906
ECLASS 9.0	27270906
ECLASS 10.0	27270906
ECLASS 11.0	27270906
ECLASS 12.0	27270906
ECLASS 13.0	27270906
ECLASS 14.0	27270906
ECLASS 15.0	27270906
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
ETIM 9.0	EC001820
ETIM 10.0	EC001820

## **Dimensioned drawings**

All dimensions in millimeters



- Green LED
- Yellow LED
- C1 Optical axis (receiver)
- C2 Optical axis (transmitter)
- Teach button
- Mounting sleeve
- Light spot orientation horizontal
- Light spot orientation vertical

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## **Electrical connection**



#### **Connection 1**

Function	Signal OUT
	Teach input
	Voltage supply
Type of connection	Connector
Thread size	M8
Туре	Male
Material	Metal
No. of pins	4 -pin

Pin	Pin assignment
1	V+
2	Teach-in
3	GND
4	OUT 1



## **Operation and display**

Display LED 1	Display LED 2	Meaning
Green, continuous light	Off	Operational readiness
Green, flashing, 3 Hz	Yellow, flashing, 3 Hz	Teach event active
Green, flashing, 15 Hz	Yellow, flashing, 15 Hz	Teach error
Green, continuous light	Yellow, continuous light	Mark detected

### Part number code

Part designation: KRT3C A.BCDD/EF-G

KRT3C	Operating principle KRT3C: Contrast sensor
Α	Light type M: LED, multicolor W: White light L1: laser class 1
В	Light spot orientation L: vertical Q: horizontal
С	Control button 3: teach-in via button
DD	Teach mode S1: Static 1-point teach S2: Static 2-point teach D2: Dynamic 2-point teach
E	Switching output/function OUT 1/IN: Pin 4 or black conductor 2: NPN transistor output, light switching 4: PNP transistor output, light switching 6: push-pull switching output, PNP light switching, NPN dark switching L: IO-Link / light switching (PNP)/dark switching (NPN)
F	Switching output / function OUT 2/IN: pin 2 or white conductor G: Push-pull switching output, PNP dark switching, NPN light switching T: teach-in via cable

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#### Part number code



G

**Electrical connection** 

n/a: cable, standard length 2000 mm, 4-wire

M8: M8 connector, 4-pin (plug) 200-M12: cable, length 200 mm with M12 connector, 4-pin, axial (plug) 200-M8: cable, length 200 mm with M8 connector, 4-pin, axial (plug)

#### Note



🖔 A list with all available device types can be found on the Leuze website at www.leuze.com.

#### **Notes**



#### Observe intended use!



- \$ This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.



#### For UL applications:



♦ For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).

#### **Further information**

• Sum of the output currents for both outputs, 50 mA for ambient temperatures > 40 °C

#### **Accessories**

## Connection technology - Connection cables

	Part no.	Designation	Article	Description
¥	50130850	KD U-M8-4A-V1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
VV/	50130871	KD U-M8-4W-V1-050	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

#### **Accessories**



Part no. Designation **Article Description** 

## Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50105546	BT 3B	Mounting device	Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal

## Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
To be	50117829	BTP 200M-D12	Mounting system	Design of mounting device: Protection hood Fastening, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
	50117255	BTU 200M-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type, Suited for M3 screws Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal

#### Note



A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.

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We reserve the right to make technical changes