

Technical data sheet Inductive switch Part no.: 50144590 IS C08MM/4NO-2E0



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Technical data

Wire cross section

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Basic data

В	asic data	
S	eries	C08
Ту	vp. operating range limit S _n	2 mm
0	perating range S _a	0 1.6 mm
_		
С	haracteristic parameters	
М	TTF	342 years
_		
-	lectrical data	
P	rotective circuit	Inductive protection
		Polarity reversal protection
		Short circuit protected
	Performance data	
	Supply voltage U _B	10 30 V, DC
	Residual ripple	0 10 %, From U _B
	Open-circuit current	0 15 mA
	Temperature drift, max. (in % of S _r)	15 %, Over the entire operating tempe-
		rature range
	Repeatability, max. (in % of S _r)	5 %, For U _B = 20 30 VDC, ambient
	Switching hysteresis	temperature $T_a = 23 \degree C \pm 5 \degree C$ 15 %
	ownering hysteresis	13 /0
	Outputs	
	Number of digital switching outputs	1 Piece(s)
	Switching outputs	20
	Voltage type	
	Switching current, max.	100 mA
	Residual current, max.	0.1 mA
	Voltage drop	2 V
	Switching output 1	
	Switching element	Transistor, PNP
	Switching principle	NO (normally open)
Т	me behavior	
S	witching frequency	1,000 Hz
R	eadiness delay	100 ms
~		
Connection		
Number of connections		1 Piece(s)
	O server attack to	
	Connection 1 Function	
	- unotion	Signal OUT Voltage supply
	Type of connection	Cable
	Cable length	2.000 mm
	Sheathing material	PVC
	Cable color	Black
	Number of conductors	3 -wire

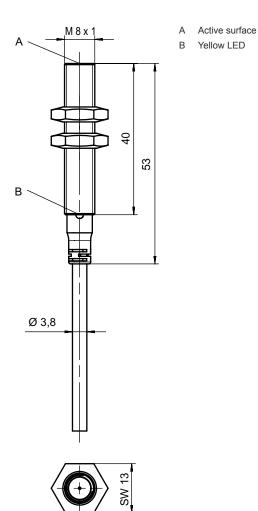
0.2 mm²

Mechanical data Design Cylindrical Thread size M8 x 1 mm Dimension (Ø x L) 8 mm x 53 mm Type of installation Embedded Housing material Metal Metal housing Stainless steel Sensing face material Plastic, Polybutylene (PBT) Net weight 19.5 g Housing color Red, RAL 3000 Silver Type of fastening Mounting thread Standard measuring plate 12 x 12 mm², Fe360 **Operation and display** Type of display LED Number of LEDs 1 Piece(s) **Environmental data** Ambient temperature, operation -25 ... 70 °C Ambient temperature, storage -30 ... 80 °C Certifications Degree of protection IP 67 **Protection class** Ш Test procedure for EMC in accordance IEC 61000-4-2 with standard IEC 61000-4-3 IEC 61000-4-4 Standards applied IEC 60947-5-2 **Correction factors** ∆luminum 04 Stainless steel 0.75 Copper 0 45 Brass 0.35 Fe360 steel 1 Classification Customs tariff number 85365019 ECLASS 5.1.4 27270101 ECLASS 8.0 27270101 ECLASS 9.0 27270101 ECLASS 10.0 27270101 ECLASS 11.0 27270101 ECLASS 12.0 27274001 ECLASS 13.0 27274001 ECLASS 14.0 27274001 **ETIM 5.0** EC002714 **ETIM 6.0** EC002714 **ETIM 7.0** EC002714 **ETIM 8.0** EC002714 **ETIM 9.0** EC002714

Inductive switch • Part no.: 50144590 • IS C08MM/4NO-2E0

Dimensioned drawings

All dimensions in millimeters



Electrical connection

Connection 1

Function	Signal OUT
	Voltage supply
Type of connection	Cable
Cable length	2,000 mm
Sheathing material	PVC
Cable color	Black
Number of conductors	3 -wire
Wire cross section	0.2 mm ²

Conductor color

Conductor assignment

Brown	V+
Blue	GND
Black	OUT 1

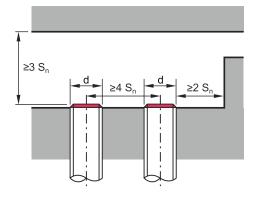
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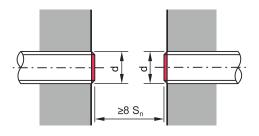


Diagrams

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Embedded installation





Operation and display

LED Display 1 Yellow, continuous light

Meaning

Switching output/switching state

Part number code

Part designation: IS AAABB/CCC-DDD-EEE

IS	Operating principle / construction IS: inductive switch, standard design
ΑΑΑ	Series C08: series with M8 x 1 external thread C12: series with M12 x 1 external thread C18: series with M18 x 1 external thread C22: series in cubic design with 18 x 18 mm C30: series with M30 x 1,5 external thread
BB	Housing MM: metal housing (active surface: plastic) / metric thread PP: Plastic housing
ccc	Output current / supply 2NC: NPN transistor, NC contact 2NO: NPN transistor, NO contact 4NC: PNP transistor, NC contact 4NO: PNP transistor, NO contact

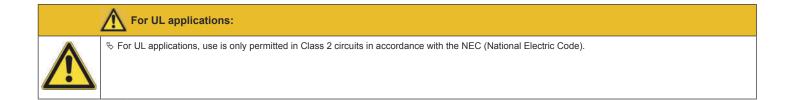
Part number code



DDD	Measurement range / type of installation 2E0: typ. range limit 2.0 mm / embedded installation 2N5: typ. range limit 2.5 mm / non-embedded installation 4E0: typ. range limit 4.0 mm / embedded installation 4N0: typ. range limit 4.0 mm / non-embedded installation 5E0: typ. range limit 5.0 mm / non-embedded installation 5E0: typ. range limit 5.0 mm / embedded installation 8E0: typ. range limit 8.0 mm / embedded installation 8E0: typ. range limit 10.0 mm / embedded installation 10E: typ. range limit 10.0 mm / non-embedded installation 12N: typ. range limit 15.0 mm / non-embedded installation 15E: typ. range limit 15.0 mm / non-embedded installation 15N: typ. range limit 15.0 mm / non-embedded installation 15N: typ. range limit 15.0 mm / non-embedded installation 16N: typ. range limit 16.0 mm / non-embedded installation 16N: typ. range limit 16.0 mm / non-embedded installation 30N: typ. range limit 16.0 mm / non-embedded installation
EEE	Electrical connection n/a: cable, standard length 2000mm, 3-wire M8: M8 connector, 3-pin (plug) M12: M12 connector, 4-pin (plug)
No.	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.
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Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
]	50130842	KD U-M8-3A-P1-020	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 2.000 mm Sheathing material: PUR

Accessories

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		Part no.	Designation	Article	Description
		50130844	KD U-M8-3A-P1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PUR
		50130837	KD U-M8-3A-V1-020	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 2.000 mm Sheathing material: PVC
•	Ŵ	50130860	KD U-M8-3W-V1-020	Connection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 2.000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
Ø	50113550	BT D08M.5	Mounting bracket	Diameter, inner: 8 mm 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: Stainless steel

Mounting technology - Other

 Part no.	Designation	Article	Description
50111497	MC 008K	Clamp	Diameter, inner: 8 mm Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Rigid Material: Plastic
50111498	MC 008K-LS	Clamp	Diameter, inner: 8 mm Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable with limit stop Type of mounting device: Rigid Material: Plastic

	Note
6	% 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

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