Technical data sheet
Inductive switch
Part no.: 50157336
IS 122PP/4NO-5E0,200-M8.3



For Illustration purposes only

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Diagrams
- Operation and display
- Part number code
- Notes

IP 67

Technical data

Leuze

Basic data

Series	122
type. operating range limit S_n	5 mm

Electrical data

Protective circuit	Overload protection
	Polarity reversal protection
	Short circuit protected

Performance data

Supply voltage U_B	10 ... 30 V, DC
Open-circuit current	0 ... 10 mA
Temperature drift, max. (in % of S_r)	10 %
Repeatability, max. (in % of S_r)	1 %
Switching hysteresis	15 %

Outputs

Number of digital switching outputs	1 Piece(s)

Switching outputs

Voltage type	DC
Switching current, max.	200 mA
Residual current, max.	0.01 mA
Voltage drop	≤ 2 V

Switching output 1

Switching element	Transistor, PNP
Switching principle	NO (normally open)

Time behavior

Switching frequency	500 Hz

Connection

Number of connections	1 Piece(s)

Connection 1

Function	Signal OUT
	Voltage supply
Type of connection	Cable with connector
Cable length	200 mm
Sheathing material	PVC
Cable color	Black
Number of conductors	3 -wire
Wire cross section	0.25 mm²
Thread size	M8
Type	Male
Material	Plastic
No. of pins	3 -pin
Encoding	A-coded

Mechanical data

Design	Cubic
Dimension (W x H x L)	18 mm x 18 mm x 34.3 mm
Type of installation	Embedded/flush
Housing material	Plastic
Plastic housing	ABS
Sensing face material	Plastic, ABS
Net weight	23.1 g
Housing color	Red, RAL 3000
	Transparent
Type of fastening	Through-hole mounting
Standard measuring plate	15 x 15 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	-25 ... 70 °C

Certifications

Degree of protection	IP 67
Standards applied	IEC 60947-5-2

Correction factors

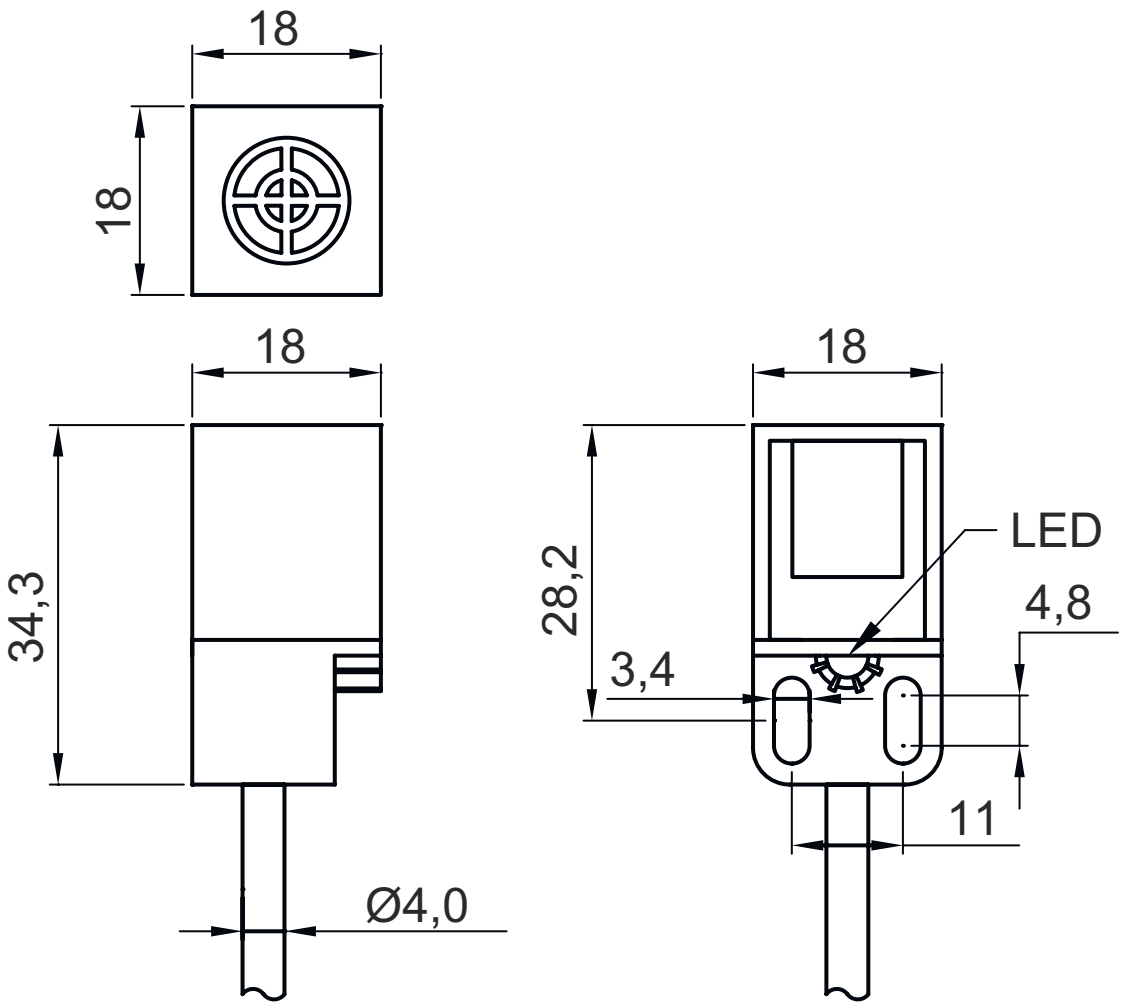
Fe360 steel	1

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
ECLASS 15.0	27274001
ECLASS 16.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
ETIM 9.0	EC002714
ETIM 10.0	EC002714
UNSPSC 26.08	39122230

Dimensioned drawings

All dimensions in millimeters



A Active surface
B Yellow LED

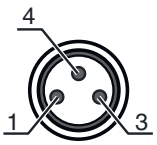
Electrical connection

Connection 1

Function	Signal OUT
	Voltage supply
Type of connection	Cable with connector
Cable length	200 mm
Sheathing material	PVC
Cable color	Black
Number of conductors	3 -wire
Wire cross section	0.25 mm²
Thread size	M8
Type	Male
Material	Plastic
No. of pins	3 -pin
Encoding	A-coded

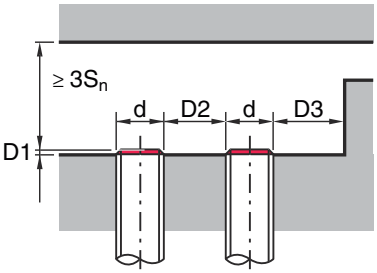
Electrical connection

Pin	Pin assignment	Conductor color
1	V+	Brown
3	GND	Blue
4	OUT 1	Black



Diagrams

Embedded/flush installation



S_n [mm] 5
D1 [mm] 0
D2 [mm] 18
D3 [mm] 18

Operation and display

LED	Display	Meaning
1	Yellow, continuous light	Switching output/switching state

Part number code

Part designation: **ISX YYY XX/ZZZ-AAA-BBBB**

ISX	**Operating principle / construction** IS: inductive switch, standard design ISS: inductive switch, short construction
YYY	**Series** 104: series with Ø 4.0 mm 108: series with M8 x 1 external thread 112: series with M12 x 1 external thread 118: series with M18 x 1 external thread 122: series in cubic design with 18 x 18 mm 130: series with M30 x 1.5 external thread 144: series in cubic design with 40 x 40 mm 180: series in cubic design with 80 x 80 mm
XX	**Housing** MM: metal housing (active surface: plastic) / metric thread PP: Plastic housing MP: metal housing (active surface: plastic) / smooth (without thread)
ZZZ	**Switching output** 4NO: PNP transistor, NO contact 4NC: PNP transistor, NC contact 44: PNP transistor, NO contact / NC contact 2NO: NPN transistor, NO contact 2NC: NPN transistor, NC contact 22: NPN transistor, NO contact / NC contact 1NO: relay, NO contact / AC/DC 1NC: Relay, NC contact / AC/DC

Part number code

AAA	**Measurement range / type of installation** 1E2: typ. range limit 1.2 mm / embedded/flush installation 2E0: typ. range limit 2.0 mm / embedded/flush installation 4E0: typ. range limit 4.0 mm / embedded/flush installation 4N0: typ. range limit 4.0 mm / non-embedded/non-flush installation 5E0: typ. range limit 5.0 mm / embedded/flush installation 6E0: typ. range limit 6.0 mm / embedded/flush installation 8E0: typ. range limit 8.0 mm / embedded/flush installation 8N0: typ. range limit 8.0 mm / non-embedded/non-flush installation 10E: typ. range limit 10.0 mm / embedded/flush installation 15N: typ. range limit 15.0 mm / non-embedded/non-flush installation 16E: typ. range limit 16.0 mm / embedded/flush installation 16N: typ. range limit 16.0 mm / non-embedded/non-flush installation 20E: typ. range limit 20.0 mm / embedded/flush installation 25N: typ. range limit 25.0 mm / non-embedded/non-flush installation 30N: typ. range limit 30.0 mm / non-embedded/non-flush installation 40N: typ. range limit 40.0 mm / non-embedded/non-flush installation 50N: typ. range limit 50.0 mm / non-embedded/non-flush installation 2E5: Typ. range limit 2.5 mm / embedded/flush installation
DDD	**Electrical connection** n/a: cable, standard length 2000 mm, 3-wire M8.3: M8 connector, 3-pin (plug) M12: M12 connector, 4-pin (plug) TB.4: terminals, 4-pin 050: cable, standard length 5000 mm, 3-wire

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.