IB180006

INDUCTIVE SENSORS • DISTANCE MEASUREMENT

sensor inductive, analog, M18x1 50long, Quasi-flat, Sn: 0-10, 15-30V DC, 4-20mA, Cable 2m PUR (Polyurethane), IP67, Brass Chrome-plated, resolution 5µm

MECHANICAL FEATURES

Active area material of sensor	PBTP
Ambient temperature	-25 °C ... 70 °C
Atmospheric-change resistant (temperature cycle)	-
Cable length	2 m
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
High-pressure-proof sensors	-
Housing coating	Chrome-plated
Housing material	Brass
Increased ambient temperatures > 80°C	-
Material of cable sheath	PUR (Polyurethane)
Mechanical mounting condition for sensor	Quasi-flat
Number of cores	4
Sensor length	50 mm
Thread pitch	1 mm
Thread size, metric	18

ELECTRICAL FEATURES

Absolute repeat accuracy	0.3 mm
Correction factor (aluminum)	0.2
Correction factor (brass)	0.3
Correction factor (copper)	0.17
Correction factor (St37)	1
Correction factor (stainl. steel)	0.65
Distance measuring sensors	+
Magnetic field resistant	-
Measuring range length	0 mm ... 10 mm
No-load current	12 mA
Operating voltage	15 V ... 30 V
Readiness delay	50 ms
Relative repeat accuracy	0.3 %
Reverse polarity protection	+
Short-circuit protection	+

ELECTRICAL FEATURES

Supply voltage	15 V ... 30 V
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Cable
Voltage type	DC

OPTICAL FEATURES

Resolution	5 µm

OTHER FEATURES

Devices for hose mounting	-
Feeding technology	-
Harsh environmental conditions	-
Hygienic and wet area	-
Metallic sensor surface	-
Oil and cooling lubricants	-
Ring-shaped sensors	-
Welding-proof sensors	-

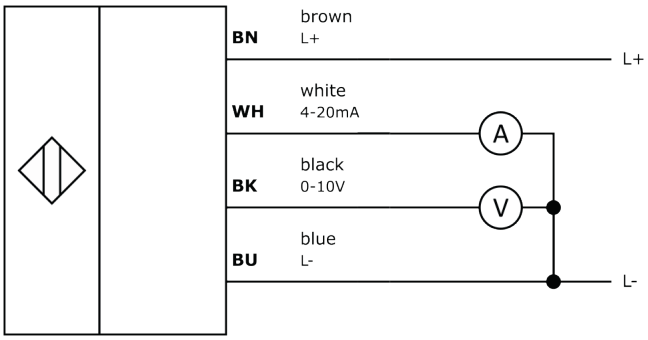
Other

Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.13kg
Tariff code	85365019

Classification

ipf product group	209
eClass 8.0	27270802
eClass 9.0	27270802
eClass 9.1	27270802
ETIM-5.0	EC001818
ETIM-6.0	EC001818
ETIM-7.0	EC001818

Connection



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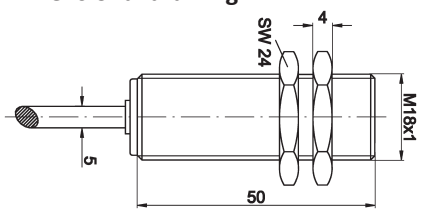
Dimensional drawing



Installation

Mounting / installation may only be carried out by a qualified electrician!

Disposal

Safety warnings

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.
Never use these devices in applications where the safety of a person depends on their functionality.
LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.