

IB12E051

INDUCTIVE SENSORS • INCREASED SWITCHING DISTANCE

sensor inductive, M12x1 45long, Flush, Sn: 4, 10-30V DC, 85°C, PNP NO, Connector M12 4pin, IP69K, V4A



MECHANICAL FEATURES

Active area material of sensor	LCP
Alignment of cable entry	Axial
Ambient temperature	-25 °C ... 85 °C
Cable infeed	Axial
Degree of protection (IP)	IP69K
Design	Cylinder, screw-thread
Housing material	Stainless steel 1.4404
Increased ambient temperatures > 80°C	+
Max. tightening torque	20 Nm
Mechanical mounting condition for sensor	Flush
Pressure-proof	-
Sensor length	45 mm
Thread length	30 mm
Thread pitch	1 mm
Thread size, metric	12

ELECTRICAL FEATURES

Cascadable	-
Decay time	0.25 ms
Max. output current at safe output	200 mA
No-load current	10 mA
Norm measuring plate	12x12x1
Number of pins	4
Operating voltage	10 V ... 30 V
Rated switching current	200 mA
Residual ripple	15 %
Response time	0.25 ms
Reverse polarity protection	+
Short-circuit protection	+
Suitable for safety functions	-
Supply voltage	10 V ... 30 V
Switching distance	4 mm
Switching frequency	2000 Hz

ELECTRICAL FEATURES

Type of electrical connection	Connector M12
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With monitoring function of downstream devices	-

OTHER FEATURES

Hygienic and wet area	+
-----------------------	---

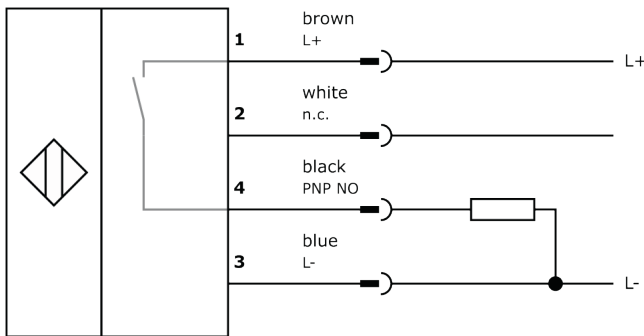
Other

Packaging dimensions	100mm x 15.0mm x 120mm
Shipping weight	0.02kg
Tariff code	85365019

Classification

ipf product group	700
eClass 8.0	27270101
eClass 9.0	27270101
eClass 9.1	27270101
ETIM-5.0	EC002714
ETIM-6.0	EC002714
ETIM-7.0	EC002714

Connection



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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Proximity Sensors](#) category:

Click to view products by [IPF ELECTRONIC](#) manufacturer:

Other Similar products are found below :

[01.001.5653.1](#) [70.340.1028.0](#) [70.360.2428.0](#) [70.364.4828.0](#) [70.810.1053.0](#) [72.360.1628.0](#) [73.363.6428.0](#) [8027AL20NL2CPXX](#) [FYCC8E1-2](#)
[9221350022](#) [922AA2W-A9P-L](#) [PLS2](#) [GL-12F-C2.5X10\(LOT3\)](#) [972AB2XM-A3N-L](#) [972AB3XM-A3P-L](#) [PS3251](#) [980659-1](#) [QT-12](#) [E2E2-](#)
[X5M41-M4](#) [E2E-X14MD1-G](#) [E2E-X2D1-G](#) [E2EX2ME2N](#) [E2EX3D1SM1N](#) [E2E-X4MD1-G](#) [E2E-X5E1-5M-N](#) [E2E-X5Y2-N](#) [E2E-X7D1-](#)
[M1J-T-0.3M-N](#) [E2FMX1R5D12M](#) [E2K-F10MC1](#) [5M](#) [EH-302](#) [EI3010TBOP](#) [EI5515NPAP](#) [MS605AU](#) [EP175-32000](#) [IFRM04N35B1/L](#)
[IFRM04P1513/S35L](#) [IFRM06P1703/S35L](#) [IFRM08P1501/S35L](#) [IFRM12N17G3/L](#) [IFRM12P17G3/L](#) [IFRM12P3502/L](#) [IFRM12P37G1/S14L](#)
[ILFK12E9189/I02](#) [ILFK12E9193/I02](#) [IMM2582C](#) [OISN-013](#) [25.161.3253.0](#) [25.332.0653.1](#) [25.352.0653.0](#) [25.352.0753.0](#)