

IB12010H INDUCTIVE SENSORS • INCREASED SWITCHING DISTANCE

sensor inductive, M12x1 50long, Quasi-flat, Sn: 8, 10-30V DC, PNP NO, Cable 2m PVC, IP67, Brass Chrome-plated



MECHANICAL FEATURES

AxialAxialAmbient temperature-25 °C 70 °CCable infeedAxialCable infeedAxialCable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingChrome-platedHousing materialBrassWaterial of cable sheathPVCWechanical mounting condition for sensorQuasi-flatNumber of cores3Pressure-proof-Sensor length50 mmThread pitch1 mmThread size, metric12ELECTRICAL FEATURES-Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (star)10 %ANo-load current10 mANorm measuring plate32x32x1Rated switching current200 mAReverse polarity protection+		
Ambient temperature-25 °C 70 °CCable infeedAxialCable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingChrome-platedHousing materialBrassWaterial of cable sheathPVCWechanical mounting condition for sensorQuasi-flatNumber of cores3Pressure-proof-Sensor length50 mmThread pitch1 mmThread pitch1 mmChrome splated-Correction factor (aluminum)0.2Correction factor (copper)0.36Correction factor (stail. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Retative repeat accuracy5 %Reverse polarity protection+	Active area material of sensor	PBTP
Cable infeedAxialCable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threaddousing coatingChrome-platedHousing materialBrassWaterial of cable sheathPVCVechanical mounting condition for sensorQuasi-flatNumber of cores3Pressure-proof-Sensor length50 mmThread length50 mmThread size, metric12ELECTRICAL FEATURES-Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (stainl. steel)0.67Aysteresis10 %Norm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+	Alignment of cable entry	Axial
Cable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingChrome-platedHousing materialBrassWaterial of cable sheathPVCWechanical mounting condition for sensorQuasi-flatNumber of cores3Pressure-proof-Sensor length50 mmThread length50 mmThread size, metric12ELECTRICAL FEATURES-Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (stainl. steel)0.677Hysteresis10 %ANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+	Ambient temperature	-25 °C 70 °C
Degree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingChrome-platedHousing materialBrassWaterial of cable sheathPVCWechanical mounting condition for sensorQuasi-flatNumber of cores3Pressure-proof-Sensor length50 mmThread length50 mmThread size, metric12ELECTRICAL FEATURES-Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (stainl. steel)0.67Hysteresis10 %Norload current10 mANorm measuring plate32x32x1Rated switching current200 mAReverse polarity protection+Short-circuit protection+	Cable infeed	Axial
DesignCylinder, screw-threadHousing coatingChrome-platedHousing materialBrassWaterial of cable sheathPVCWechanical mounting condition for sensorQuasi-flatNumber of cores3Pressure-proof-Sensor length50 mmThread length50 mmThread size, metric12ELECTRICAL FEATURES-Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (stainl. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+	Cable length	2 m
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Waterial of cable sheathPVCWechanical mounting condition for sensorQuasi-flatNumber of cores3Pressure-proof-Sensor length50 mmThread length50 mmThread length1 mmThread size, metric12ELECTRICAL FEATURES-Cascadable-Correction factor (aluminum)0.2Correction factor (copper)0.36Correction factor (stainl. steel)0.67Avort measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+Short-circuit protection+	Housing coating	Chrome-plated
Mechanical mounting condition for sensorQuasi-flatNumber of cores3Pressure-proof-Sensor length50 mmStensor length50 mmThread length1 mmThread pitch1 mmThread size, metric12ELECTRICAL FEATURES-Cascadable-Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (copper)0.23Correction factor (stainl. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current5 %Reverse polarity protection+Short-circuit protection+	Housing material	Brass
Number of cores3Pressure-proof-Sensor length50 mmStread length50 mmThread length1 mmThread pitch1 mmThread size, metric12CascadableCorrection factor (aluminum)Correction factor (brass)0.36Correction factor (copper)0.23Correction factor (stainl. steel)0.67Aysteresis10 %No-load current10 mANorm measuring plate32x32x1Relative repeat accuracy5 %Reverse polarity protection+	Material of cable sheath	PVC
Pressure-proof-Sensor length50 mmFhread length50 mmThread length1 mmThread pitch1 mmThread size, metric12ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (copper)0.23Correction factor (stainl. steel)0.67Aysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current5 %Relative repeat accuracy5 %Reverse polarity protection+	Mechanical mounting condition for sensor	Quasi-flat
Sensor length50 mmThread length50 mmThread pitch1 mmThread size, metric12ELECTRICAL FEATURESCascadableCorrection factor (aluminum)Correction factor (brass)0.2Correction factor (copper)0.23Correction factor (stainl. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Relative repeat accuracy5 %Relative repeat accuracy+Short-circuit protection+	Number of cores	3
Thread length50 mmThread pitch1 mmThread size, metric12ELECTRICAL FEATURESCascadableCorrection factor (aluminum)0.2Correction factor (brass)0.36Correction factor (brass)0.23Correction factor (stainl. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Short-circuit protection+	Pressure-proof	-
Thread pitch1 mmThread size, metric12ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (copper)0.23Correction factor (stainl. steel)0.67Aysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+	Sensor length	50 mm
Thread size, metric 12 ELECTRICAL FEATURES - Cascadable - Correction factor (aluminum) 0.2 Correction factor (brass) 0.36 Correction factor (copper) 0.23 Correction factor (sta77) 1 Correction factor (stainl. steel) 0.67 Hysteresis 10 % No-load current 10 mA Norm measuring plate 32x32x1 Relative repeat accuracy 5 % Reverse polarity protection +	Thread length	50 mm
ELECTRICAL FEATURES Cascadable - Correction factor (aluminum) 0.2 Correction factor (brass) 0.36 Correction factor (copper) 0.23 Correction factor (St37) 1 Correction factor (stainl. steel) 0.67 Hysteresis 10 % No-load current 10 mA Norm measuring plate 32x32x1 Rated switching current 200 mA Relative repeat accuracy 5 % Reverse polarity protection +	Thread pitch	1 mm
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Correction factor (aluminum)0.2Correction factor (brass)0.36Correction factor (copper)0.23Correction factor (St37)1Correction factor (stainl. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+	ELECTRICAL FEATURES	
Correction factor (brass)0.36Correction factor (copper)0.23Correction factor (St37)1Correction factor (stainl. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+	Cascadable	-
Correction factor (copper)0.23Correction factor (St37)1Correction factor (stainl. steel)0.67Aysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+	Correction factor (aluminum)	0.2
Correction factor (St37)1Correction factor (stainl. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+Short-circuit protection+	Correction factor (brass)	0.36
Correction factor (stainl. steel)0.67Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+Short-circuit protection+	Correction factor (copper)	0.23
Hysteresis10 %No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+Short-circuit protection+	Correction factor (St37)	1
No-load current10 mANorm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+Short-circuit protection+	Correction factor (stainl. steel)	0.67
Norm measuring plate32x32x1Rated switching current200 mARelative repeat accuracy5 %Reverse polarity protection+Short-circuit protection+	Hysteresis	10 %
Rated switching current 200 mA Relative repeat accuracy 5 % Reverse polarity protection + Short-circuit protection +	No-load current	10 mA
Relative repeat accuracy 5 % Reverse polarity protection + Short-circuit protection +	Norm measuring plate	32x32x1
Reverse polarity protection + Short-circuit protection +	Rated switching current	200 mA
Short-circuit protection +	Relative repeat accuracy	5 %
	Reverse polarity protection	+
Suitable for safety functions -	Short-circuit protection	+
	Suitable for safety functions	-

IPF ELECTRONIC

ELECTRICAL FEATURES

Supply voltage	10 V 30 V
Switching distance	8 mm
Switching frequency	400 Hz
Type of electrical connection	Cable
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	

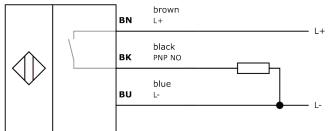
Other

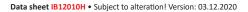
Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.11kg
Tariff code	85365019

Classification

ipf product group	201
eClass 8.0	27270101
eClass 9.0	27270101
eClass 9.1	27270101
ETIM-5.0	EC002714
ETIM-6.0	EC002714
ETIM-7.0	EC002714

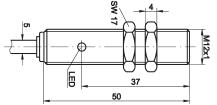
Connection







Dimensional drawing



Installation



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



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.

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