

IA180100 INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

sensor inductive, preferential, M18x1 50long, Flush, Sn: 5, 10-30V DC, PNP NO, Cable 2m PVC, IP67, Brass Nickel-plated



MECHANICAL FEATURES

Active area material of sensorPA 6.6 (synthetic)Alignment of cable entryAxialAmbient temperature-25 °C 70 °CCable infeedAxialCable infeedAxialCable infeedAxialCable infeedQuinder, screw-threadDegree of protection (IP)IP67DesignCylinder, screw-threadHousing materialBrassMaterial of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length50 mmThread size, metric18ELECTRICAL FEATURESCorrection factor (aluminum)0.3Correction factor (stain]. steel)0.7Correction factor (stain]. steel)15 %No-load current15 %Norde current15 %Norde current200 mARester spolarity protection+Short-circuit protection+Short-circuit protection51 %		
Ambient temperature-25 °C 70 °CCable infeedAxialCable infeed2 mCable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingNickel-platedHousing coatingNickel-platedHousing coatingPVCMaterial of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread size, metric18ELECTRICAL FEATURES2Cascadable-Correction factor (aluminum)0.3Correction factor (opper)0.7Correction factor (St37)1Correction factor (St37)1No-load current15 mÅNord current15 mÅNord current200 mARated switching current200 mÅReverse polarity protection+Short-circuit protection+	Active area material of sensor	PA 6.6 (synthetic)
Cable infeedAxialCable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingNickel-platedHousing materialBrassMaterial of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread pitch1 mmThread size, metric18ELECTRICAL FEATURES-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (torss)0.7Correction factor (stal). steel)15 mANo-load current15 mANorm measuring plate18x18x1Rated switching current200 mAReverse polarity protection10 %Reverse polarity protection+	Alignment of cable entry	Axial
Cable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingNickel-platedHousing coatingBrassMaterial of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread size, metric18ELECTRICAL FEATURES-Carcection factor (sluminum)0.3Correction factor (star)0.4Correction factor (star)1Correction factor (star)1.5 %Norda current1.5 %Norda current15 mANorda current10 %Relative repeat accuracy0.1 %Reverse polarity protection4Nort-circuit protection4Short-circuit protection4	Ambient temperature	-25 °C 70 °C
Degree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingNickel-platedHousing materialBrassMaterial of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread pitch1 mmThread size, metric18ELECTRICAL FEATURES0.4Correction factor (aluminum)0.3Correction factor (stainl. steel)0.4Correction factor (stainl. steel)0.7Hysteresis15 mANorm measuring plate15 mANorm measuring plate200 mARelative repeat accuracy10%Reverse polarity protection+Short-circuit protection+	Cable infeed	Axial
DesignCylinder, screw-threadHousing coatingNickel-platedHousing materialBrassMaterial of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread length1 mmThread size, metric18ELECTRICAL FEATURES0.4Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (stainl. steel)0.7Hysteresis15 %Norm measuring plate18 x18x1Norm measuring plate18 x18x1Retel switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Cable length	2 m
Housing coatingNickel-platedHousing materialBrassMaterial of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread length1 mmThread size, metric18ELECTRICAL FEATURES-Cascadable-Correction factor (aluminum)0.3Correction factor (copper)0.2Correction factor (stail. steel)15 %No-load current15 mANorum measuring plate18x18x1Rated switching current10 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Degree of protection (IP)	IP67
Housing materialBrassMaterial of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread pitch1 mmThread pitch18ELECTRICAL FEATURES-Cascadable-Correction factor (aluminum)0.3Correction factor (opper)0.2Correction factor (st37)1Correction factor (st37)15 %No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Design	Cylinder, screw-thread
Material of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread pitch1 mmThread size, metric18CascadableCorrection factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.4Correction factor (sta7)1Correction factor (sta1). steel)0.7Hystersis15 %Norun measuring plate15 mARelative repeat accuracy200 mAReverse polarity protection+Short-circuit protection+	Housing coating	Nickel-plated
Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread pitch1 mmThread size, metric18CascadableCorrection factor (luminum)0.3Correction factor (brass)0.4Correction factor (brass)0.4Correction factor (st37)1Correction factor (st37)1No-load current15 %ANorm measuring plate200 mARelative repeat accuracy40 mAReverse polarity protection+Short-circuit protection+	Housing material	Brass
Number of cores3Pressure-proof-Sensor length50 mmThread length40 mmThread pitch1 mmThread size, metric18ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (opper)0.4Correction factor (stainl. steel)0.7Hysteresis15 %ANorn measuring plate18x18x1Rated switching current200 mARelative repeat accuracy4Short-circuit protection+Short-circuit protection+	Material of cable sheath	PVC
Pressure-proof-Sensor length50 mmThread length40 mmThread pitch1 mmThread size, metric18Cascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Mechanical mounting condition for sensor	Flush
Sensor length50 mmThread length40 mmThread pitch1 mmThread size, metric18ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy4Short-circuit protection+Short-circuit protection+	Number of cores	3
Thread length40 mmThread pitch1 mmThread size, metric18ELECTRICAL FEATURESCascadable	Pressure-proof	-
Thread pitch1 mmThread size, metric18ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.2Correction factor (st37)1Correction factor (stainl. steel)0.7Hysteresis15 %ANorl measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Sensor length	50 mm
Thread size, metric18ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (stairl. steel)0.7Hysteresis15 %Norl measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Thread length	40 mm
ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (sta7)1Correction factor (stainl. steel)0.7Hysteresis15 %Norl measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Thread pitch	1 mm
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Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	ELECTRICAL FEATURES	
Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+	Cascadable	-
Correction factor (copper)0.2Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Correction factor (aluminum)	0.3
Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Correction factor (brass)	0.4
Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Correction factor (copper)	0.2
Hysteresis15 %No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Correction factor (St37)	1
No-load current15 mANorm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Correction factor (stainl. steel)	0.7
Norm measuring plate18x18x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Hysteresis	15 %
Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	No-load current	15 mA
Relative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Norm measuring plate	18x18x1
Reverse polarity protection + Short-circuit protection +	Rated switching current	200 mA
Short-circuit protection +	Relative repeat accuracy	10 %
	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	5 mm
Switching frequency	500 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	-

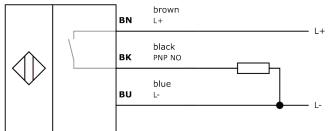
Other

Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.12kg
Tariff code	85365019

Classification

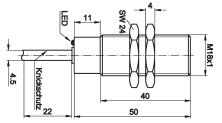
ipf product group	216
eClass 8.0	27270101
eClass 9.0	27270101
eClass 9.1	27270101
ETIM-5.0	EC002714
ETIM-6.0	EC002714
ETIM-7.0	EC002714

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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