

# IB0801A4 INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

sensor inductive, M8x1 16long, Flush, Sn: 1.5, 10-30V DC, PNP NO, Cable 2m PUR (Polyurethane), IP67, Stainless steel 1.4305



# **MECHANICAL FEATURES**

Active area material of sensorPBTAlignment of cable entryAxialAmbient temperature-25 °C 70 °CCable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing materialStainless steel 1.4305Material of cable sheathPUR (Polyurethane)Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length16 mmThread length16 mmThread size, metric8ELECTRICAL FEATURESCascadable-Correction factor (stan)0.3Correction factor (stan)0.3Correction factor (stan).0.3Correction factor (stan).15 mANorm measuring plate8x841Reted surficing urrent200 mAReted surficing urrent200 mAReter spolarity protection+Short-circuit protection+Short-circuit protection5.Suitable for safety functions-Suitable for safety functions200 mASuitable for safety functions+Short-circuit protection+Starter spolarity protection+Short-circuit protection-Suitable for safety functions-Suitable for safety functions<		
Ambient temperature-25 °C 70 °CCable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing materialStainless steel 1.4305Material of cable sheathPUR (Polyurethane)Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length16 mmThread length1 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (stain). steel)0.7Hysteresis15 %No-load current15 %ANo-load current55 %ANorm measuring plate&&&x11Relative repeat accuracy10 %Reverse polarity protection+Suitable for safety functions-Suitable for safety functions-	Active area material of sensor	РВТ
Cable length2 mDegree of protection (IP)IP67DesignCylinder, screw-threadHousing materialStainless steel 1.4305Material of cable sheathPUR (Polyurethane)Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length16 mmThread length16 mmThread length1 mmThread size, metric8ELECTRICAL FEATURES-Correction factor (aluminum)0.3Correction factor (star)0.4Correction factor (star)15 mANo-load current15 mANo-load current15 mANord measuring plate8x8x1Retad witching current200 mARelative repeat accuracy10 %Reverse polarity protection+Suitable for safety functions-Suitable for safety func	Alignment of cable entry	Axial
Degree of protection (IP)IP67DesignCylinder, screw-threadHousing materialStainless steel 1.4305Material of cable sheathPUR (Polyurethane)Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length16 mmThread length16 mmThread size, metric8ELECTRICAL FEATURES-Cascadable-Correction factor (aluminum)0.3Correction factor (stain). steel)0.7Hysteresis15 mANorm measuring plate8x811Rated switching current200 mARelative repeat accuracy10%Staitable for safety functions-Staitable for safety functions-Orrection factor (stain). steel)-Norm measuring plate8x811Rated switching current200 mARelative repeat accuracy4Suitable for safety functions-Suitable for safety functions-Suit	Ambient temperature	-25 °C 70 °C
DesignCylinder, screw-threadHousing materialStainless steel 1.4305Material of cable sheathPUR (Polyurethane)Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length16 mmThread length16 mmThread size, metric8ELECTRICAL FEATURES-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.7Correction factor (stainl. steel)0.7Hysteresis15 %ANorm measuring plate8x8x1Retative repeat accuracy10 %ARetative repeat accuracy10 %ASuitable for safety functions-Suitable for safety functions <td< td=""><td>Cable length</td><td>2 m</td></td<>	Cable length	2 m
Housing materialStainless steel 1.4305Material of cable sheathPUR (Polyurethane)Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length16 mmThread length16 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURES-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.4Correction factor (stainl. steel)0.7Hysteresis15 %Norme asuring plate8x8x1Rated switching current200 mARelative repeat accuracy4.0Suitable for safety functions-Suitable for safety functions- <trt< td=""><td>Degree of protection (IP)</td><td>IP67</td></trt<>	Degree of protection (IP)	IP67
Material of cable sheathPUR (Polyurethane)Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length16 mmThread length16 mmThread length1 mmThread size, metric8ELECTRICAL FEATURES-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (star)1Correction factor (star)0.7Hysteresis15 %ANorm measuring plate8x8x1Read switching current200 mARelative repeat accuracy40 %CShort-circuit protection-Suitable for safety functions-Suitable for safe	Design	Cylinder, screw-thread
Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor length16 mmThread length16 mmThread length1 mmThread size, metric8ELECTRICAL FEATURESCascadableCorrection factor (aluminum)0.3Correction factor (brass)0.4Correction factor (star)0.2Correction factor (star)0.7Hysteresis15 %No-load current15 mANorm measuring plate8x811Reted switching current200 mARelative repeat accuracy10 %Suitable for safety functions-Suitable for safety functions-Suitable for safety functions10 V 30 V	Housing material	Stainless steel 1.4305
Number of cores3Pressure-proof-Sensor length16 mmThread length16 mmThread length1 mmThread size, metric8CascadableCascadableCorrection factor (aluminum)O.30.3Correction factor (brass)0.4Correction factor (star)0.2Correction factor (star)0.7Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Relative repeat accuracy10 %Relative repeat accuracy10 %Suitable for safety functions-Suitable for safety functions-Suitable for safety functions-Suitable for safety functions-Supply voltage10 V 30 V	Material of cable sheath	PUR (Polyurethane)
Pressure-proof-Sensor length16 mmThread length16 mmThread pitch1 mmThread size, metric8Cascadable-Correction factor (aluminum)Correction factor (brass)0.4Correction factor (opper)0.2Correction factor (stainl. steel)0.7Hysteresis15 %ANorload current15 mANorm measuring plate8x8x1Reted switching current200 mARelative repeat accuracy10 %Sont-circuit protection+Short-circuit protection-Suitable for safety functions-Suitable for safety functions-Supply voltage10 V 30 V	Mechanical mounting condition for sensor	Flush
Sensor length16 mmThread length16 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURESCascadable- ^ Correction factor (aluminum)O.3Correction factor (brass)O.4Correction factor (copper)O.2Correction factor (stair). steel)O.7Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Reted switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions-Suitable for safety functions-Supply voltage10 V30 V	Number of cores	3
Thread length16 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (opper)0.2Correction factor (stai7)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Relative repeat accuracy10 %Relative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions-Supply voltage10 V 30 V	Pressure-proof	-
Thread pitch1 mmThread size, metric8ELECTRICAL FEATURESCascadableCorrection factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (star)1Correction factor (star)0.7Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Rated switching current200 mARelative repeat accuracy10%Reverse polarity protection+Short-circuit protection-Suitable for safety functions-Supply voltage10 V 30 V	Sensor length	16 mm
Thread size, metric8ELECTRICAL FEATURESCascadable-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 plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Suitable for safety functions-Suitable for safety functions-Supply voltage10 V 30 V	Thread length	16 mm
ELECTRICAL FEATURESCascadable-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 plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions-Supply voltage10 V 30 V	Thread pitch	1 mm
Cascadable-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 plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions10 V 30 V	Thread size, metric	8
Cascadable-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 plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions10 V 30 V		
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 plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions-Supply voltage10 V 30 V		
Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protections-Suitable for safety functions10 V 30 V		
Correction factor (copper)0.2Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V		
Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V		
Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions-Supply voltage10 V 30 V		
Hysteresis15 %No-load current15 mANorm measuring plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V		
No-load current15 mANorm measuring plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V		
Norm measuring plate8x8x1Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V		
Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V		-
Relative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V		
Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V	-	
Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 V		
Suitable for safety functions -   Supply voltage 10 V 30 V	· · ·	
Supply voltage     10 V 30 V		+
		-
Switching distance 1.5 mm		
	Switching distance	1.5 mm

# **IPF** ELECTRONIC

#### **ELECTRICAL FEATURES**

Switching frequency	1000 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	

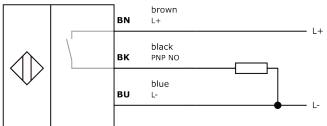
### Other

Packaging dimensions	100mm x 17.0mm x 120mm
Shipping weight	0.04kg
Tariff code	85365019

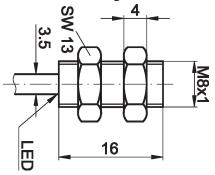
## Classification

ipf product group	200
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!



# Software



Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com

## 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.