

IB060100 INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

sensor inductive, \emptyset 6,5mm 50long, Flush, Sn: 1.5, 10-30V DC, PNP NO, Cable 2m PVC, IP67, Stainless steel 1.4305



MECHANICAL FEATURES

Active area material of sensorPOD197Active area material of sensorPBTAmbient temperature25 °C 70 °CCable length2 °C 70 °CDegree of protection (IP)IP67Housing designCylinder plainHousing materialStainless steel 1.4305Material of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Sensor diameter6.5 mmSensor diameter50 mmSensor diameter0.3Correction factor (aluminum)0.3Correction factor (copper)0.4Correction factor (stars)0.4Correction factor (stars)1Correction factor (stars)0.7No-load current15 %Reterspelarity protection10 %Reterspelarity protection10 %Reterspelarity protection10 %Short-icruit protection10 %Suitable for safety functions10 % <th></th> <th></th>		
Ambient temperature-25 °C 70 °CCable length2 mDegree of protection (IP)IP67Housing designCylinder plainHousing materialStainless steel 1.4305Material of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor diameter6.5 mmSensor diameter5.0 mmSensor lameter0.3Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (trass)0.4Correction factor (stair)1Correction factor (stair)1.5No-load current15 mARates witching current200 mAReletive repeat accuracy10%Reverse polarity protection+Suitable for safety functions-Suitable for safety functions10%Suitable for safety functions10%Suitable for safety functions-Suitable for safety functions-Suitable for safety functions10%Suitable for safety functions-Suitable for safety functions10%Suitable for safety functions-Suitable for safety functions100%Suitable for safety functions-Suitable for safety functions100%Suitable for safety functions100%Suitable for safety functions100%Suitable for safety functions100%Suitable for safety functions		IV000197
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Degree of protection (IP)IP67Housing designCylinder plainHousing materialStainless steel 1.4305Material of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor diameter6.5 mmSensor length50 mmELECTRICAL FEATURES-Carcection factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.4Correction factor (star)1Correction factor (star)1.5 mAReade suitching current15 %ANo-load current15 mAReade suitching current10 %Reade suitching current10 %Suitable for safety functions+Suitable for safety functions10 V 30 VSuitable for safety functions10 V 30 VSuitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Ambient temperature	-25 °C 70 °C
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Housing materialStainless steel 1.4305Material of cable sheathPVCMechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor diameter6.5 mmSensor length50 mm ELECTRICAL FEATURES CascadableO.4Correction factor (aluminum)O.30.4Correction factor (brass)0.4Correction factor (st37)1Correction factor (st37)1.5No-load current15 %AReted switching current200 mAReted switching current9.0Suitable for safety functions-Suitable for safety functions1.5 mASuitable for safety functions1.5 mASuitable for safety functions1.5 mASuitable for safety functions-Suitable for safety functions1.5 mmSuitable for safety functions1.5 mmSuitable for safety functions1.5 mmSuitable for safety functions1.5 mmSuitable for safety functions1.5 mmSwitching frequency1.000 HzSwitching frequency1.000 HzSuitable for safety functions1.5 mmSwitching frequency1.000 HzSwitching frequency1.000 HzSwitching frequency1.000 HzSwitching frequency1.000 HzSwitching frequency1.000 HzSwitching frequency1.000 Hz	Degree of protection (IP)	IP67
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Mechanical mounting condition for sensorFlushNumber of cores3Pressure-proof-Sensor diameter6.5 mmSensor length50 mmELECTRICAL FEATURESCascadableCorrection factor (aluminum)0.3Correction factor (brass)0.4Correction factor (opper)0.2Correction factor (staf)1Correction factor (staf)0.7Hysteresis15 %ANo-load current15 mARelative repeat accuracy10 %Reverse polarity protection+Suitable for safety functions10 %Suitable for safety functions10 %	Housing material	Stainless steel 1.4305
Number of cores3Pressure-proof-Sensor diameter6.5 mmSensor length50 mmELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.4Correction factor (st37)1Correction factor (st37)1Correction factor (stainl. steel)0.7Hysteresis15 %ANo-load current200 mARelative repeat accuracy10%Reverse polarity protection+Suitable for safety functions10 N30 VSuitable for safety functions1.5 mmSuitable for safety functions1.5 mmSwitching distance100 HzSwitching frequency1000 HzType of electrical connectionCable	Material of cable sheath	PVC
Pressure-proof-Sensor diameter6.5 mmSensor length50 mmELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (opper)0.2Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mARelative repeat accuracy10 %Relative repeat accuracy10 %Suitable for safety functions-Suitable for safety functions-Suitable for safety functions1.5 mmSwitching distance1.000 HzSwitching frequency1000 Hz	Mechanical mounting condition for sensor	Flush
Sensor diameter6.5 mmSensor length50 mmELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (st37)1Correction factor (st37)0.7Vystersis15 %No-load current15 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Suitable for safety functions10 %Suitable for safety functions10 %Switching distance1000 HzSwitching frequency1000 HzType of electrical connectionCable	Number of cores	3
Sensor length50 mmELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Suitable for safety functions-Suitable for safety functions1.5 mmSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCoable	Pressure-proof	-
FLECTRICAL 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 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Sensor diameter	6.5 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 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Suitable for safety functions10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Sensor length	50 mm
Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mARated switching current200 mARelative repeat accuracy10 %Short-circuit protection+Suitable for safety functions10 V30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	ELECTRICAL FEATURES	
Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions0.7Switching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Cascadable	
Correction factor (copper)0.2Correction factor (St37)1Correction factor (stain. steel)0.7Hysteresis15 %No-load current15 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Correction factor (aluminum)	0.3
Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection-Suitable for safety functions-Supply voltage10 V 30 VSwitching frequency1000 HzType of electrical connectionCable	Correction factor (brass)	0.4
Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Suitable for safety functions10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Correction factor (copper)	0.2
Hysteresis15 %No-load current15 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Suitable for safety functions10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Correction factor (St37)	1
No-load current15 mARated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Correction factor (stainl. steel)	0.7
Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Hysteresis	15 %
Relative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	No-load current	15 mA
Reverse polarity protection+Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Rated switching current	200 mA
Short-circuit protection+Suitable for safety functions-Supply voltage10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Relative repeat accuracy	10 %
Suitable for safety functions-Supply voltage10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Reverse polarity protection	+
Supply voltage10 V 30 VSwitching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Short-circuit protection	+
Switching distance1.5 mmSwitching frequency1000 HzType of electrical connectionCable	Suitable for safety functions	-
Switching frequency1000 HzType of electrical connectionCable	Supply voltage	10 V 30 V
Type of electrical connection Cable	Switching distance	1.5 mm
	Switching frequency	1000 Hz
Type of switching function Normally open contact	Type of electrical connection	Cable
	Type of switching function	Normally open contact

IPF ELECTRONIC

ELECTRICAL FEATURES

Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With monitoring function of downstream devices	-

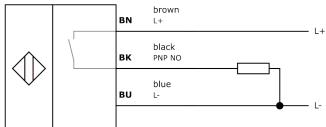
Other

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

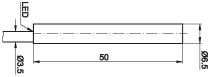
Classification

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!



Disposal

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.