

IM08017W INDUCTIVE SENSORS • INCREASED AMBIENT TEMPERATURE

sensor inductive, preferential, M8x1 50long, Non-flush, Sn: 3, 10-30V DC, -40-100°C, PNP NO, Connector M8 3pin, IP67, Brass Nickel-plated



MECHANICAL FEATURES

Active area material of sensorPA 6.6 (synthetic)Alignment of cable entryAxialAmbient temperatures < 25°C+4Cable infeedAxialDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingNickel-platedHousing materialBrassIncreased ambient temperatures > 80°C+Mechanical mounting condition for sensorNon-flushPressure-proof-Sensor length50 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURES-Correction factor (brass)0.4Correction factor (stainl. steel)0.7Correction factor (stainl. steel)15 %Non-dod current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Relative repeat accuracy4.0Short-oricutin protection+Short-oricutin protection5.0Sensor length15 %Number of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-oricutin protection+Short-oricutin protection+Short-oricutin protection+Short-oricutin protection+Short-oricutin protection+Short-oricutin protection+Short-oricutin protection+Short-oricutin protection+	MECHANICAL FLATORES	
Ambient temperature-40 °C 100 °CAmbient temperatures < -25°C	Active area material of sensor	PA 6.6 (synthetic)
Ambient temperatures <-25°C+Cable infeedAxialDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingNickel-platedHousing materialBrassIncreased ambient temperatures >80°C+Mechanical mounting condition for sensorNon-flushPressure-proof-Sensor length50 mmThread pitch1 mmThread pitch1 mmThread size, metric8Cascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (stainl. steel)0.7Hysteresis15 %ANo-load current30 mANumber of pins3Ratel switching current200 mARelative repeat accuracy10 %AReverse polarity protection+Short-circuit protection4	Alignment of cable entry	Axial
Cable infeedAxialDegree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingNickel-platedHousing materialBrassIncreased ambient temperatures > 80°C+Mechanical mounting condition for sensorNon-flushPressure-proof-Sensor length50 mmThread pitch1 mmThread pitch3Thread size, metric8Correction factor (aluminum)0.3Correction factor (stass)0.4Correction factor (stass)0.4Correction factor (stass)1Correction factor (stass)1.5Non-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Ambient temperature	-40 °C 100 °C
Degree of protection (IP)IP67DesignCylinder, screw-threadHousing coatingNickel-platedHousing materialBrassIncreased ambient temperatures > 80°C+Mechanical mounting condition for sensorNon-flushPressure-proof-Sensor length50 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURES-Cascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.4Correction factor (brass)0.7Hysteresis15 %No-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Ambient temperatures < -25°C	+
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Housing coatingNickel-platedHousing materialBrassIncreased ambient temperatures > 80°C+Mechanical mounting condition for sensorNon-flushPressure-proof-Sensor length50 mmThread pitch1 mmThread size, metric8CascadableCorrection factor (aluminum)0.3Correction factor (brass)0.4Correction factor (stair). steel)1.1Correction factor (stair). steel)0.7Hysteresis15 %Number of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Degree of protection (IP)	IP67
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Increased ambient temperatures > 80°C+Mechanical mounting condition for sensorNon-flushPressure-proof-Sensor length50 mmThread pitch1 mmThread size, metric8CascadableCorrection factor (aluminum)0.3Correction factor (opper)0.4Correction factor (stainl. steel)0.7Hysteresis15 %Non-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy4Short-circuit protection+Short-circuit protection+	Housing coating	Nickel-plated
Mechanical mounting condition for sensorNon-flushPressure-proof-Sensor length50 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (stainl. steel)0.7Hysteresis15 %ANumber of pins3Rated switching current200 mARelative repeat accuracy4Short-circuit protection+Short-circuit protection+	Housing material	Brass
Pressure-proof-Sensor length50 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.2Correction factor (star)1Correction factor (star)1Correction factor (star)0.7Hysteresis15 %No-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy+Short-circuit protection+	Increased ambient temperatures > 80°C	+
Sensor length50 mmThread pitch1 mmThread size, metric8ELECTRICAL FEATURESCascadableCarcetion factor (aluminum)Correction factor (aluminum)Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (stainl. steel)0.7Hystersis15 %ANo-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Mechanical mounting condition for sensor	Non-flush
Thread pitch1 mmThread size, metric8ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.2Correction factor (st37)1Correction factor (stainl. steel)0.7Hysteresis15 %ANo-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy+Short-circuit protection+	Pressure-proof	-
Thread size, metric8ELECTRICAL FEATURESCascadable-Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (brass)0.2Correction factor (star)1Correction factor (star)0.7Hysteresis15 %No-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy+Short-circuit protection+	Sensor length	50 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 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	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 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Thread size, metric	8
Correction factor (aluminum)0.3Correction factor (brass)0.4Correction factor (copper)0.2Correction factor (St37)1Correction factor (stainl. steel)0.7Hysteresis15 %No-load current15 mANumber of pins3Rated 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 mANumber of pins3Rated 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 mANumber of pins3Rated 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 mANumber of pins3Rated 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 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Correction factor (copper)	0.2
Hysteresis15 %No-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Correction factor (St37)	1
No-load current15 mANumber of pins3Rated switching current200 mARelative repeat accuracy10 %Reverse polarity protection+Short-circuit protection+	Correction factor (stainl. steel)	0.7
Number of pins3Rated 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+	Number of pins	3
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	-
Supply voltage 10 V 30 V	Supply voltage	10 V 30 V
Switching distance 3 mm	Switching distance	3 mm

IPF ELECTRONIC

ELECTRICAL FEATURES

Switching frequency	1000 Hz
Type of electrical connection	Connector M8
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	-

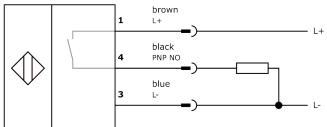
Other

Packaging dimensions	100mm x 0.0mm x 120mm
Shipping weight	
Tariff code	85365019

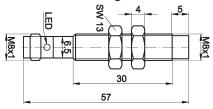
Classification

ipf product group	202
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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