

## **INKF0420**

# **INDUCTIVE SENSORS • NORM SWITCHING DISTANCE**

sensor inductive, Ø160mm 60long, Non-flush, Sn: 120, 10-55V DC, PNP Anticoincidence, Connector M12 4pin, IP67, Aluminum / PTB



# **MECHANICAL FEATURES**

Active area material of sensor	PBT
Alignment of cable entry	Axial
Ambient temperature	-25 °C 75 °C
Cable infeed	Axial
Degree of protection (IP)	IP67
Design	Cylinder plain
Housing material	Aluminum / PTB
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	-
Sensor diameter	160 mm
Sensor length	60 mm

## **ELECTRICAL FEATURES**

Cascadable Correction factor (aluminum) 0.4 Correction factor (brass) 0.4 Correction factor (copper) 0.3 Correction factor (stair) No-load current 4 mA Number of pins 4 Rated switching current 400 mA Reverse polarity protection + Short-circuit protection + Suitable for safety functions - Supply voltage 10 V 55 V Switching distance 120 mm Switching frequency Type of electrical connection Connector M12 Type of switching output PNP Voltage drop Voltage type DC	ELECTRICAL FEATURES	
Correction factor (brass)  Correction factor (copper)  Correction factor (St37)  Correction factor (stainl. steel)  No-load current  No-load current  A mA  Number of pins  Reverse polarity protection  Short-circuit protection  Suitable for safety functions  Supply voltage  Switching distance  Switching frequency  Type of electrical connection  Type of switching function  Type of switching output  Voltage drop  O.4  Anticoincidence  D.7  PNP  Voltage drop  O.8  A mA  A m	Cascadable	-
Correction factor (copper)  Correction factor (St37)  Correction factor (stainl. steel)  No-load current  No-load current  A mA  Number of pins  Rated switching current  House polarity protection  Short-circuit protection  Suitable for safety functions  Supply voltage  Switching distance  Switching distance  Switching frequency  Type of electrical connection  Type of switching function  Type of switching output  Voltage drop  O.3  1  1  1  1  1  1  1  1  1  1  1  1  1	Correction factor (aluminum)	0.4
Correction factor (\$t37)  Correction factor (\$tainl. steel)  No-load current  4 mA  Number of pins  4  Rated switching current  400 mA  Reverse polarity protection  +  Suitable for safety functions  Supply voltage  10 V 55 V  Switching distance  120 mm  Switching frequency  Type of electrical connection  Type of switching function  Type of switching function  Type of switching output  PNP  Voltage drop  2 V	Correction factor (brass)	0.4
Correction factor (stainl. steel)  No-load current  4 mA  Number of pins  4  Rated switching current  400 mA  Reverse polarity protection  +  Short-circuit protection  5uitable for safety functions  5upply voltage  10 V 55 V  Switching distance  120 mm  Switching frequency  Type of electrical connection  Type of switching function  Type of switching output  Voltage drop  2 V	Correction factor (copper)	0.3
No-load current  Number of pins  4 mA  Rated switching current  400 mA  Reverse polarity protection  + Short-circuit protection  5uitable for safety functions  Supply voltage  10 V 55 V  Switching distance  120 mm  Switching frequency  7ype of electrical connection  Type of switching function  Type of switching output  PNP  Voltage drop  2 W	Correction factor (St37)	1
Number of pins  Rated switching current  400 mA  Reverse polarity protection  +  Short-circuit protection  +  Suitable for safety functions  -  Supply voltage  10 V 55 V  Switching distance  120 mm  Switching frequency  Type of electrical connection  Type of switching function  Type of switching output  Voltage drop  4  Auticoincidence  PNP  Voltage drop  2 V	Correction factor (stainl. steel)	0.7
Rated switching current  Reverse polarity protection  +  Short-circuit protection  +  Suitable for safety functions  -  Supply voltage  10 V 55 V  Switching distance  120 mm  Switching frequency  Type of electrical connection  Connector M12  Type of switching function  Type of switching output  Voltage drop  20 Hz  Voltage drop  20 V	No-load current	4 mA
Reverse polarity protection + Short-circuit protection + Suitable for safety functions - Supply voltage 10 V 55 V Switching distance 120 mm Switching frequency 20 Hz Type of electrical connection Connector M12 Type of switching function Anticoincidence Type of switching output PNP Voltage drop 2 V	Number of pins	4
Short-circuit protection + Suitable for safety functions - Supply voltage 10 V 55 V Switching distance 120 mm Switching frequency 20 Hz Type of electrical connection Connector M12 Type of switching function Anticoincidence Type of switching output PNP Voltage drop 2 V	Rated switching current	400 mA
Suitable for safety functions - Supply voltage 10 V 55 V Switching distance 120 mm Switching frequency 20 Hz Type of electrical connection Connector M12 Type of switching function Anticoincidence Type of switching output PNP Voltage drop 2 V	Reverse polarity protection	+
Supply voltage 10 V 55 V  Switching distance 120 mm  Switching frequency 20 Hz  Type of electrical connection Connector M12  Type of switching function Anticoincidence  Type of switching output PNP  Voltage drop 2 V	Short-circuit protection	+
Switching distance 120 mm  Switching frequency 20 Hz  Type of electrical connection Connector M12  Type of switching function Anticoincidence  Type of switching output PNP  Voltage drop 2 V	Suitable for safety functions	-
Switching frequency  Type of electrical connection  Connector M12  Type of switching function  Anticoincidence  Type of switching output  PNP  Voltage drop  20 Hz  Enter M12  Anticoincidence  2 V	Supply voltage	10 V 55 V
Type of electrical connection  Type of switching function  Type of switching output  PNP  Voltage drop  Connector M12  Anticoincidence  PNP  2 V	Switching distance	120 mm
Type of switching function  Anticoincidence  Type of switching output  PNP  Voltage drop  2 V	Switching frequency	20 Hz
Type of switching output PNP Voltage drop 2 V	Type of electrical connection	Connector M12
Voltage drop 2 V	Type of switching function	Anticoincidence
	Type of switching output	PNP
Voltage type DC	Voltage drop	2 V
·	Voltage type	DC



#### **ELECTRICAL FEATURES**

With LED display	+
With monitoring function of downstream devices	-

# **OTHER FEATURES**

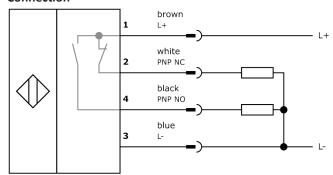
#### Other

Packaging dimensions	180mm x 80mm x 180mm
Shipping weight	2.21kg
Tariff code	85365019

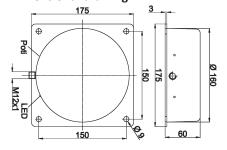
#### Classification

ipf product group	203
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





# 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.