IPF ELECTRONIC

IO12012F

Inductive sensors
All-steel sensors

I one-piece stainless steel housing

/ IO-Link

short-circuit and reverse polarity protection

/ M12-Connector



chip immune to iron, aluminum, stainless steel, brass, copper, titanium









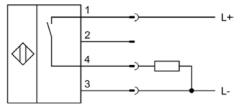


TECHNICAL DATA

mounting	non flush
switching distance	3mm
output signal	pnp, no
operating voltage	10 30V DC
ripple	≤ 20%
current consumption (w/o load)	≤ 10mA
output current (max. load)	200mA
voltage drop (max. load)	≤ 2V DC
norm measuring plate	12mm x 12mm x 1mm, FE360
hysteresis	≤ 15%
repeat accuracy	0.2mm
correction factors (ST37 / Alu / Ms)	1.0 / 1.7 / 1.8
correction factors (Cu / VA: 1mm / VA: 2mm)	1.5 / 0 / 0
temperature drift	≤ 10%
switching frequency	≤ 400Hz
short-circuit protection	+
reverse polarity protection	+
display	$0 \le s \le 0.8s_r$: LED yellow
uispiay	$0.8s_r \le s \le s_r$: LED yellow blinking
dimensions	M12 x 1
length (thread / complete)	36mm / 60mm
housing material	V2A (1.4305)
max. tightening torque	20Nm
material thickness (active surface)	0.4mm
line length (max.)	300m
operating temperature	-25 +85°C
pressure resistance (active surface)	80bar
degree of protection (EN 60529)	IP67, IP69k
connection	M12-Connector
connection accessories	e.g. VK200025
mounting accessories (universal holder)	AY000115



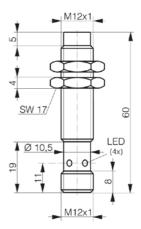
Connection



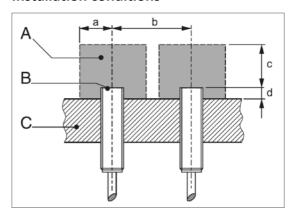
Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 2 = n.c., 3 = L-, 4 = PNP NO

Dimensional drawing



Installation conditions



a	9mm	
b	70mm	
С	9mm	
d	aluminum: steel:	13mm 15mm
	brass:	14mm
	stainless steel:	16mm
Α	metal free zone	
В	active surface	
С	support	

SAFETY WARNINGS:

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information! Never use these articles in applications where the safety of a person depends on their functionality.