

description

An important feature of these sensors is the one-piece stainless steel housing. This means that the active surface of the devices is sealed against fluids and gases, to which the whole housing material is resistant. They are much more resistant to mechanical stress than conventional proximity switches.

In order to achieve the maximum sensing range, care should be taken with regard to the size of the object (standard target) and its surface characteristics (flat surface). It is recommended to leave the devices projecting out of the metal carrier material by approx. 1mm.

Correction factors state the change in the sensing range, if

materials other than steel (1.0037) are used. This factor depends on the type, characteristics (internal structure), size and geometry of the material that the object to be detected is made from. In order to assess the approximate sensing range on materials that differ from steel, the value for steel has to be multiplied by the appropriate correction factor.

application examples

- operation in extreme environments (oil, dirt, pressure) use where great demands are made in terms of reliabi-
- lity and longevity

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inductive sensors

1500 all-steel sensors

article-no.	IC060173	IC080173	IC120123	IC180123
ensing range	2mm	2mm	4mm	6mm
version	Ø 6.5mm	M8x1	M12x1	M18x1
	9 3xLED M8x1	MBX1 WI3 33LED MBX1	SW 17 SX LED M12x1	M18x1 W18x1 SW24 SW24 M12x1
TECHNICAL DATA				
sensing range (sn)	2mm	2mm	4mm	6mm
mounting pressure resistance	semi-flush < 20bar	semi-flush < 20bar	semi-flush < 20bar	semi-flush < 20bar
output signal	pnp, no	pnp, no	pnp, no	pnp, no
	10 30V DC	10 30V DC	10 30V DC	10 30V DC
operating voltage current consumption (w/o load)	10 30V DC ≤ 20mA	10 30V DC ≤ 20mA	≤ 14mA	10 30V DC ≤ 14mA
output current (max. load)	≤ 20mA 200mA	200mA	200mA	≤ 14mA 200mA
voltage drop (max. load)	2.0V DC	2.0V DC	2.0V DC	2.0V DC
norm target	9x9x1mm, FE360	9x9x1mm, FE360	18x18x1mm, FE360	30x30x1mm, FE360
nysteresis (real sensing range sr)	2 20%	2 20%	2 20%	2 20%
correction factors (alu / copper)	0.45 / 0.35	0.45 / 0.35	0.45 / 0.35	0.45 / 0.35
correction factors (stainl. steel)	0.55	0.457 0.55	0.55	0.55
sampling frequency	150Hz	150Hz	100Hz	100Hz
status display	yellow LED	yellow LED	yellow LED	yellow LED
hort-circut protection	+	+ +	+	+ +
design	Ø 6.5mm	M8x1	M12x1	M18x1
ength (thread/complete) nousing material	- / 46mm V4A	34mm / 46mm V4A	35mm / 50mm V4A	45mm / 60mm V4A
emperature range	-25 +70°C	-25 +70°C	-25 +70°C	-25 +70°C
system of protection (EN 60529)	active face / sensor IP 68/IP67			
connection	M8-connector, 3-pin	M8-connector,, 3-pin	M12-connector,,´3-pin	M12-connector, 3-pir
connection accessories	e.g. VK200071	e.g. VK200071	e.g. VK200021	e.g. VK200021
mount. accessories (uni-bracket)	-	AY000115	AY000115	AY000117
nounting accessories (clip)	AY000046	-		-
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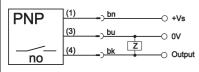


inductive sensors

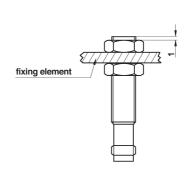


connection

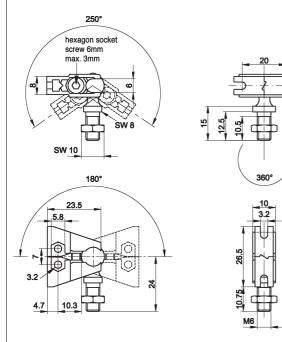
Stecker-Geräte



wire colors: bn = brown, wh = white, bu = blue, bk = black

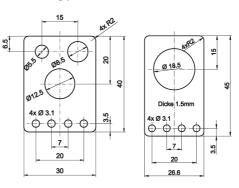


mounting accessories (Uni-bracket) AY0000115, AY000117 with base modul



...and fitting panel

mounting



ACCESSORIES

article-no.	description	material
AY000046	quick clip Ø6.5mm	PA6/steel zinced
AY000088	base modul *	flanges: stainless steel, ball pin: steel zinced
AY000115	fastening-parts kit for sensors M5, M8, M12	stainless steel
AY000117	fastening-parts kit for sensors M18	stainless steel

* The base module **AY000088** is included in every fastening-parts kit. Material of the screws and nuts: steel zinced

The list of articles contains the standard versions only. Kindly request the availability of other output- and connection functions.

We will be pleased to supply the matching cable socket for your devices with connector. Please refer to the list in catalog chapter "accessories" under "cable sockets **ipf** -*SENSORFLEX*®" or search our website for "VK".

Warning: Never use these devices in applications where the safety of a person depends on their functionality.

You also find this data sheet, as well as contact details under www.ipf-electronic.com								
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notes



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