

design **M12 x 1**
 M18 x 1
 M30 x 1.5

sensing range flush mounting 2 ... 10 mm



- ✓ active face from metal
- ✓ suitable for food and pharma industry
- ✓ insensitive to rapid temperature changes from -25°C to 110°C
- ✓ system of protection IP68 + IP69k

**all-metal housing from VA 1.4404
 unaffected by atmospheric changes**



description

The atmospheric changes resistant-metal inductive switch of the *ipf electronic* are intended for applications in corrosive environments with constantly changing temperature and high humidity. An important characteristic of these sensors is the one-piece housing made of stainless steel. The devices are on the active surface absolutely tight against liquids and gases against which the entire body material is resistant. They are much more resistant to mechanical stress than conventional proximity switches.

To achieve the maximum sensing range on the size of the object (standard target) and its surface texture (smooth surface) to look for. The Sealing of the connection cable inside the housing provide for an excellent tightness.

The sensors are easy to clean due to their properties. They are high pressure wash resistant, consistent to IP 68 and IP 69K and in a temperature range of -10 to +110 ° C can be used.

application examples

- ▶ operation in extreme environments (oil, dirt, pressure)
- ▶ operation under very high requirement on reliability and long life
- ▶ application in washer systems
- ▶ application in conditioning cabinets
- ▶ food, pharmaceutical industry
- ▶ application under aggressive environmental conditions

article-code

IC1201K0

IC1801K0

IC3001K0

nominal sensing range (Sn)

2mm

5mm

10mm

mounting

flush

flush

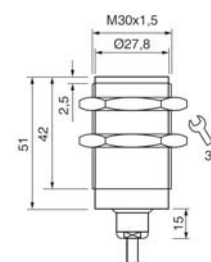
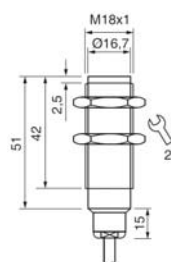
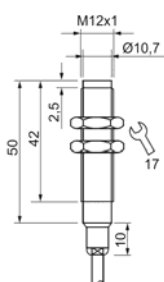
flush

connection

2m FEP-cable

2m FEP-cable

2m FEP-cable



TECHNICAL DATA

nominal sensing range (Sn)

2mm

5mm

10mm

output signal

pnp, no

pnp, no

pnp, no

operating voltage

10 ... 30V DC

10 ... 30V DC

10 ... 30V DC

current consumption (w/o load)

< 5mA

< 5mA

< 5mA

output current (max. load)

< 250mA

< 250mA

< 250mA

voltage drop (max. load)

< 1.5V

< 1.5V

< 1.5V

norm trimming plate

acc. EN 60947-5-2

acc. EN 60947-5-2

acc. EN 60947-5-2

switching frequency

180Hz

180Hz

150Hz

status display

-

-

-

short circuit protection

+

+

+

reverse polarity protection

+

+

+

dimensions

M12 x 1

M18x1

M30x1.5

length (thread / total)

39.5mm / 65mm

39.5mm / 66mm

39.5mm / 66mm

housing material

VA 1.4404

VA 1.4404

VA 1.4404

operating temperature

-10 ... +110°C

-10 ... +110°C

-10 ... +110°C

system of protection (EN60529)

IP68 + IP69k

IP68 + IP69k

IP68 + IP69k

connection

2m FEP-cable

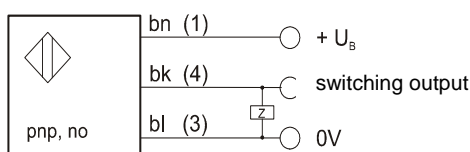
2m FEP-cable

2m FEP-cable

connection

WARNING:

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



bn=braun, bk=schwarz, bl=blau
Klemmenbezeichnung der Kabeldose in Klammern