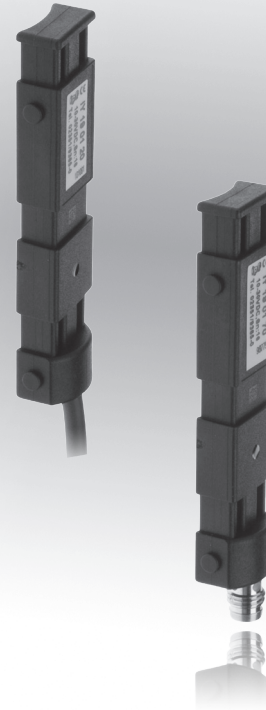
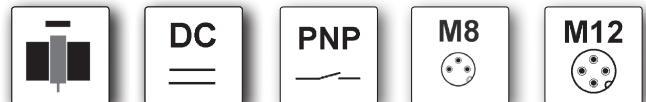


dimensions	<b>19 x 78.5 x 9mm</b>	
<b>non-flush static</b>	switching distance	<b>10mm</b>
<b>non-flush dynamic</b>	switching distance	<b>16mm</b>

- ✓ **robust plastic housing**
- ✓ **LED display**
- ✓ **static or dynamic switching output**
- ✓ **dynamic pulse stretching 100msec**
- ✓ **connection with M8-connector or M12-cable connector**



**direct mounting on plastic-hoses with cable straps**



**description**

The sensors offer the opportunity of recognizing metallic objects in transparent or non-transparent supply hoses. In relation to this, the sensor can be fastened to the hose with the aid of cable clips.

Static embodiments generate an output signal as long as metallic parts are found in the detection range. This is how supply processes, e.g. screw conveying, blockage checks can be achieved.

Dynamic sensors are employed if the detection involves particularly small parts with a small mass. If a metallic object is passing the device, a short pulse (can be set to 100msec) is generated at the output. As a condition of this (that only mate-

rial which is moved is detected), metallic abrasion in the hose is suppressed and in these applications as well, the resolution remains intact.

For realizing the maximum switching distance, care should be taken in relation to the size and characteristics of the object to be detected (standard target). A free zone of 30mm should be adhered to around the sensor.

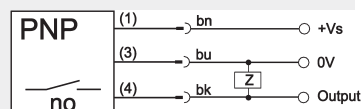
**application examples**

- ▶ for use in supply hoses
- ▶ jam checks
- ▶ counting tasks

article-no.	IY190120	IY190170	IY190175
switching distance (Sn)	16mm	16mm	10mm
output signal	pnp, no,dynamic	pnp, no, dynamic	pnp, no, static
connection	M12-cable connector	M8-connector	M8-connector
<b>TECHNICAL DATA</b>			
switching distance (Sn)	16mm	16mm	10mm
output signal	pnp, no,dynamic	pnp, no, dynamic	pnp, no, static
mounting	non-flush	non-flush	non-flush
operating voltage	10 ... 30V DC	10 ... 30V DC	10 ... 30V DC
current consumption (w/o load)	≤ 10mA	≤ 10mA	≤ 10mA
output current (max. load)	200mA	200mA	200mA
voltage drop (max. load)	2.4V DC	2.4V DC	2.4V DC
hysteresis	< 15%	< 15%	< 15%
repeat accuracy	< 10%	< 10%	< 10%
pulse stretching	100ms	100ms	-
switching frequency	-	-	300Hz
display (signal)	yellow LED	yellow LED	yellow LED
short-circuit protection	+	+	+
reverse polarity protection	+	+	+
dimensions	19x78.5x9mm	19x78.5x9mm	19x78.5x9mm
housing material	plastic	plastic	plastic
operating temperature	-25 ... +75°C	-25 ... +75°C	-25 ... +75°C
degree of protection (EN 60529)	IP67	IP67	IP67
connection	M12-cable connector 4-pin, 3 assigned, 50mm	M8-connector, 3-pin	M8-connector, 3-pin
connection accessories	e.g. VK200025	e.g. VK200075	e.g. VK200075

### connection

normally open



**wire colors:** bn = brown (1), bu = blue (3), bk = black (4)

This data sheet contains the standard versions only. Kindly request the availability of other output and connection versions.

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.

This data sheet as well as your personal contact can be found at [www.ipf-electronic.com](http://www.ipf-electronic.com)