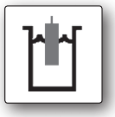
dimensions	**Ø 30 x 87mm** **Ø 46 x 95mm** **Ø 60 x 95mm**	
connection	pipe thread	**G¾** **G1¼** **G1½**

- ✓ **simple filling level detection by screwing in capacitive sensors**
- ✓ **Teflon sleeve: anti-electrostatic, resistant to acids and bases**
- ✓ **Crastin sleeve, pressure-proof to 6 bar**
- ✓ **sensor installation after mounting of the sleeve**
- ✓ **alignment of the sensors under operating conditions**

mounting sleeves for reliable filling level measurements

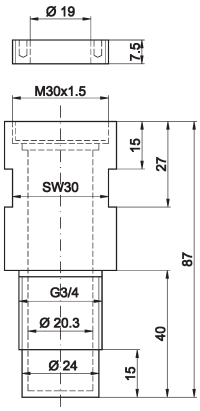
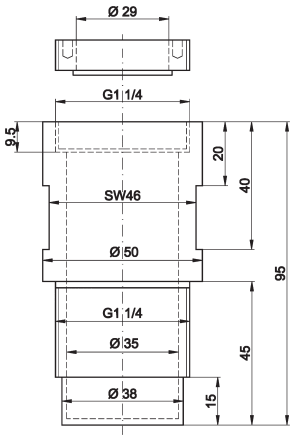
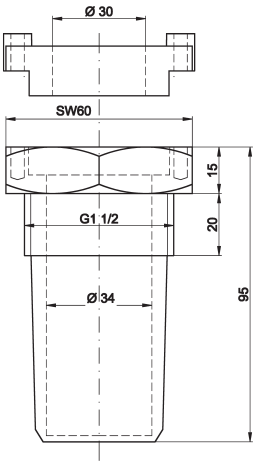


description

The mounting sleeves are used to hold capacitive sensors. All media that surround the mounting sleeve also influence the installed sensor. The dielectric balanced state between the meter electrode of the sensor and the surrounding space is changed. This process is converted to a switching signal. The optimum sensitivity adjustment is performed by the potentiometer of the sensor.
Mounting sleeves with built-in capacitive sensors are used to detect liquid, viscous, grainy, powdery and granular media.
The electronics of the sensors are fully compound-filled and thereby safety protected against many environmental influences, such as dirt, humidity, shocks, etc.
The mounting sleeve should penetrate at least 15mm into the container wall.
The sensors are calibrated to the surrounding medium under operating conditions.
Beginning with the left limit stop of the adjustment potentiometer, it is turned clockwise until the switching output switches.
Switching point safety is achieved by turning the potentiometer clockwise another one half to full turn.
Simple and reliable filling level measurements can be realized using mounting sleeves and capacitive sensors.

application examples

- ▶ detection of the filling level of liquid and viscous media

article-no.	**AF000001**	**AF000002**	**AF000003**
pressure resistance (max.)	**3bar**	**3bar**	**6bar**
thread	**G¾**	**G1¼**	**G1½**
			
TECHNICAL DATA			
housing material	PTFE (teflon)	PTFE (teflon)	polyamide (Crastin)
thread	G¾	G1¼	G1½
torque	< 1Nm	< 1Nm	< 3Nm
pressure resistance (max.)	3bar	3bar	6bar
installation depth	40mm	45mm	60mm
dimensions	Ø 30x87mm	Ø 46x95mm	Ø 60x95mm
accessories	**KN200187** **KN204187**	**KN340107** **KN344107**	**KN340107** **KN344107**

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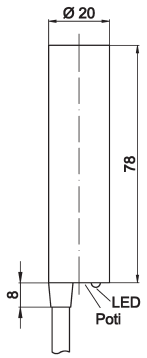
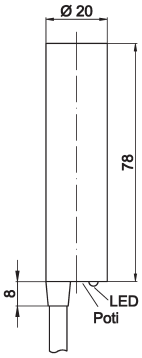
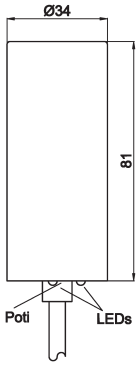
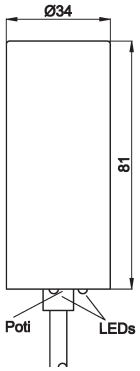
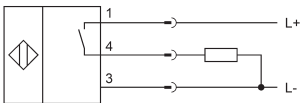
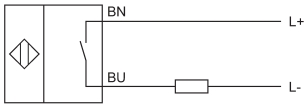
article-no.	KN200187	KN204187	KN340107	KN344107
operating range	1 ... 15mm	1 ... 15mm	6 ... 30mm	6 ... 30mm
output signal	pnp, no	AC, no	pnp, no	AC, no
				
TECHNICAL DATA				
switching distance	1 ... 15mm	1 ... 15mm	6 ... 30mm	6 ... 30mm
output signal	pnp, no	AC, no	pnp, no	AC, no
mounting	non-flush	non-flush	non-flush	non-flush
operating voltage	10 ... 55V DC	20 ... 250V AC	10 ... 60V DC	20 ... 250V AC
current consumption (w/o load)	≤ 4.0mA	≤ 2.5mA	≤ 20mA	≤ 5mA
minimum load current	-	5mA	-	3mA
output current (max. load)	400mA	400mA	400mA	300mA
voltage drop (max. load)	1.5V DC	10.0V AC	3.0V DC	10.0V AC
hysteresis	5 ... 15%	5 ... 15%	5 ... 15%	5 ... 15%
switching frequency	25Hz	15Hz	15Hz	15Hz
correction factors	wood, glass approx. 0.6 oil, PVC appox. 0.5	wood, glass approx. 0.6 oil, PVC approx. 0.5	wood, glass approx. 0.6 oil, PVC approx. 0.5	wood, glass approx. 0.6 oil, PVC approx. 0.5
display (signal)	yellow LED	yellow LED	yellow LED	yellow LED
display (operation)	-	-	green LED	green LED
short-circuit protection	+	-	+	-
reverse polarity protection	+	+	+	+
sensitivity adjustment	potentiometer	potentiometer	potentiometer	potentiometer
dimensions	Ø 20mm	Ø 20mm	Ø 34mm	Ø 34mm
length (thread/complete)	- / 78mm	- / 78mm	- / 81mm	- / 81mm
housing material	PBT	PBT	PBT	PBT
material (front cap)	PBT	PBT	PA 6.6	PA 6.6
operating temperature	-25 ... +70°C	-25 ... +70°C	-25 ... +70°C	-25 ... +70°C
degree of protection (EN 60529)	IP67	IP67	IP67	IP67
connection	2m PVC-cable, 3-wire	2m PVC-cable, 2-wire	2m PVC-cable, 3-wire	2m PVC-cable, 2-wire
mounting accessories (enclosed)	mounting clip	mounting clip	mounting clip	mounting clip

connection

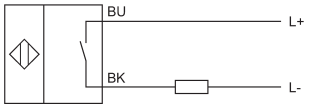
cable device DC



cable device KN204187



cable device KN344107



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

Note:
To achieve full pressure resistance, the thread should engage approximately 20mm. It may be necessary to attach a threaded flange to the container wall.
The thread is sealed either with hemp and a sealing paste acc. to DIN-DVGW or, for greater chemical resistance, with Teflon sealing tape. When screwing in, the specified thread torque must not be exceeded.

This data sheet only contains the available standard variants. For other output / connection variants, we kindly ask that you contact us.

We are happy to supply the right cable socket for the plug equipment. You will find a list in the “accessories” section of the catalog under ipf ***-SENSORFLEX®*** “cable sockets” or in the search window on our homepage www.ipf-electronic.com (using the search term “VK”).

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

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