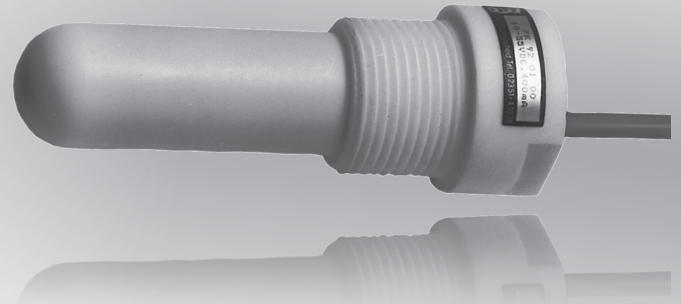
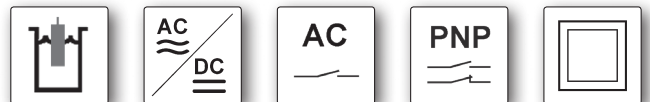


dimensions	M30 x 1,5 G¾" G1"	
level detection	operating point	media touching



- ✓ very insensitive to soiling of any kind
- ✓ LED function display
- ✓ high-quality parts for a long service life
- ✓ fully electronic with integrated amplifier
- ✓ DC-devices with short-circuit and reverse polarity protection

**anti-static Teflon housing
resistant to acids and bases**



description

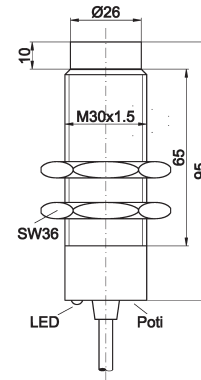
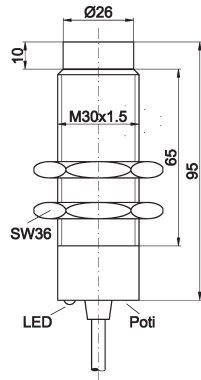
All media that surround the sensor head change the dielectric balanced state between the meter electrode and the surrounding space. This process is converted to a switching signal. The optimum sensitivity adjustment is performed by a potentiometer that is covered with a plastic screw. The sensor should penetrate at least 15mm into the container wall. Calibration to the surrounding medium is performed under operating conditions. Beginning with the left limit stop of the adjustment potentiometer, it is turned clockwise until the switching output switches. A safe switching point is achieved by turning the potentiometer clockwise another one-half to full turn.

The sensors perform particularly well with liquid and viscous media. An internal decoupling electrode largely eliminates interfering influences that can be caused by drop formation or a liquid film. The electronics are fully compoundfilled and, thus, safely protected against aggressive environmental influences, humidity and shocks. Containers made of metal or with metallic coatings as well as plastic containers with electrically conductive media should be grounded.

application examples

- ▶ detection of the filling level of liquid and viscous media
- ▶ also suitable for the level detection of grainy, powdery and granular media

article-no.	FK300100	FK304100
version	M30x1.5	M30x1.5
output	pnp, no	AC, no
article-no.	FK300200	-
version	M30x1.5	-
output	pnp, nc	-



TECHNICAL DATA

operating point	media touching the sensor tip	media touching the sensor tip
output signal	see above	see above
operating voltage	10 ... 55V DC	20 ... 250V AC
current consumption (w/o load)	≤ 4mA	≤ 2.5mA
output current (max. load)	400mA	400mA
voltage drop (max. load)	1V DC	8V AC
switching current (min. load)	-	5mA
switching frequency	10Hz	10Hz
display (signal)	yellow LED	yellow LED
display (operation)	-	-
sensitivity adjustment	potentiometer	potentiometer
short-circuit protection	+	-
reverse polarity protection	+	-
dimensions	M30x1.5	M30x1.5
length (thread/complete)	65mm/95mm	65mm/95mm
housing material	PTFE (teflon)	PTFE (teflon)
operating temperature	-25 ... +75°C	-25 ... +75°C
degree of protection (EN 60529)	IP67	IP67
connection	2m cable, PVC, 3-wire	2m, cable, PVC, 2-wire

article-no.	FK910100	FK914100	FK920400	FK924100
version	G $\frac{3}{4}$ "	G $\frac{3}{4}$ "	G1"	G1"
output	pnp, no	AC, no	pnp, no/nc	AC, no
article-no.	FK910200	-	-	FK924200
version	G $\frac{3}{4}$ "	-	-	G1"
output	pnp, nc	-	-	AC, nc

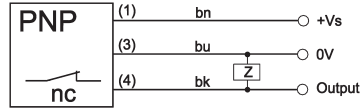
TECHNICAL DATA				
operating point	media touching the sensor tip	media touching the sensor tip	media touching the sensor tip	media touching the sensor tip
output signal	see above	see above	see above	see above
operating voltage	10 ... 55V DC	20 ... 250V AC	10 ... 35V DC	20... 250V AC
current consumption (w/o load)	≤ 4mA	≤ 2.5mA	≤ 15mA	≤ 2.5mA
output current (max. load)	400mA	400mA	2 x 250mA	250mA
voltage drop (max. load)	1V DC	8V AC	2V DC	8V AC
switching current (min. load)	-	5mA	-	5mA
switching frequency	10Hz	10Hz	50Hz	25Hz
display (signal)	yellow LED	yellow LED	yellow LED	yellow LED
display (operation)	-	-	green LED	-
sensitivity adjustment	potentiometer	potentiometer	potentiometer	potentiometer
short-circuit protection	+	-	+	-
reverse polarity protection	+	-	+	-
dimensions	G $\frac{3}{4}$ "	G $\frac{3}{4}$ "	G1"	G1"
length (thread/complete)	65mm/95mm	65mm/95mm	25mm/113mm	25mm/113mm
housing material	PTFE (Teflon)	PTFE (Teflon)	PTFE (Teflon)	PTFE (Teflon)
operating temperature	-25 ... +75°C	-25 ... +75°C	-25 ... +70°C	-25 ... +70°C
degree of protection (EN 60529)	IP67	IP67	IP67	IP67
connection	2m cable, PVC, 3-wire	2m cable, PVC, 2-wire	2m cable, PUR, 4-wire	2m cable, PUR, 2-wire

connection

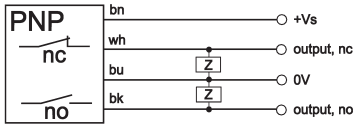
DC-devices, 3-wire, no



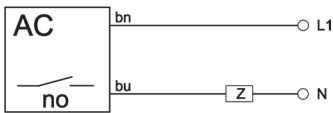
DC-devices, 3-wire, nc



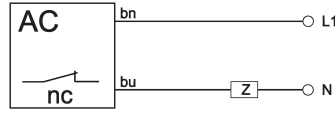
DC-devices, 4-wire, no/nc



AC-devices, 2-wire, no

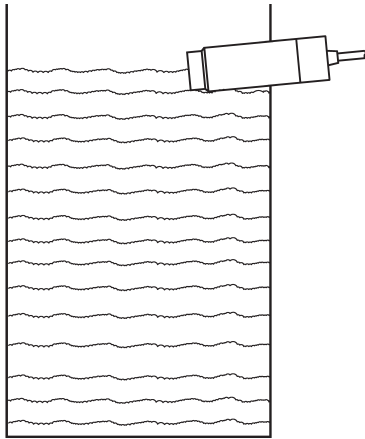


AC-devices, 2-wire, nc



wire colors: bn = brown (1), wh = white (2), bu = blue (3), bk = black (4)

application example



Note: Slanted installation of approx. 20° is recommended to prevent the formation of deposits.

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.

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