

Емкостные системы измерения уровня KFX-51, KFX-52

Технические характеристики

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PER LeVeL Capacitive Filling Level Probe - KFX

NPN Output - Antivalent (NO + NC)

PNP Output - Antivalent (NO + NC)

1 Limit value switching point

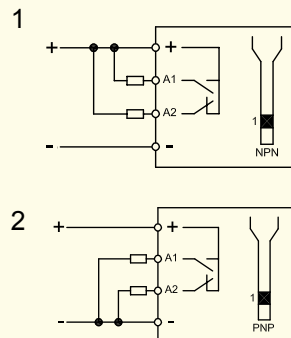
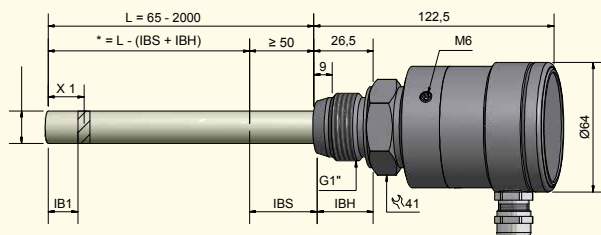
- Integrated evaluation electronics
- Housing material (active zone): See below, Ø 16 mm
- Connection head and process connection stainless steel VA
- Process connection G1"
- Probe length max. 2000 mm



Technical data

Active zones, related to probe tip	10...25 mm	10...25 mm
Electrical version	4 connections DC	4 connections DC
Output function	Antivalent	Antivalent
Type NPN	KFX-51-15-"L"-15-GFK/VAc-D16-PHG1-N-A-KL	KFX-51-15-"L"-15-PTFE/VAc-D16-PHG1-N-A-KL
Connection diagram No.	1	1
Type PNP	KFX-51-15-"L"-15-GFK/VAc-D16-PHG1-P-A-KL	KFX-51-15-"L"-15-PTFE/VAc-D16-PHG1-P-A-KL
Connection diagram No.	2	2
Operating voltage (U_B)	18...36 V DC	18...36 V DC
Voltage drop max. (U_d)	≤ 2.5 V	≤ 2.5 V
Permitted residual ripple max.	25 %	25 %
Operating current (I_e)	2 x 0...250	2 x 0...250
No-load current (I_o)	Typ. 50 mA	Typ. 50 mA
Switching frequency max.	4 Hz	4 Hz
Permitted ambient temperature	-25...+55 °C	-25...+55 °C
Permitted ambient temperature (for active zone)	-25...+100 °C	-25...+100 °C
Pressure	25 bar	2 bar
LED-Display	Green / yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 67	IP 67
Norm	EN 60947-5-2	EN 60947-5-2
Connection	Clamp terminal within the connection head	Clamp terminal within the connection head
Housing material	VA No. 1.4404 / AISI 316 L (FDA conform)	VA No. 1.4404 / AISI 316 L (FDA conform)
Active zone	GFK	PTFE (FDA 21 CFR 177.1550)

For matching accessories please see our selection of accessories.



Please determine the total length „L“ when ordering.

Other housing materials for the active zone (probe), like PEEK, PVDF or PE on request.



PER LeVeL Capacitive Filling Level Probe - KFX

NPN Output - Normally Open (NO)

PNP Output - Normally Open (NO)

2 Limit value switching points

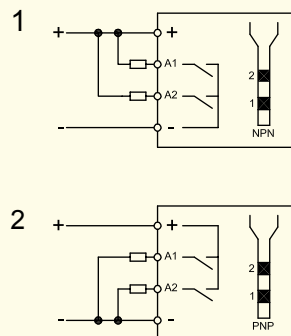
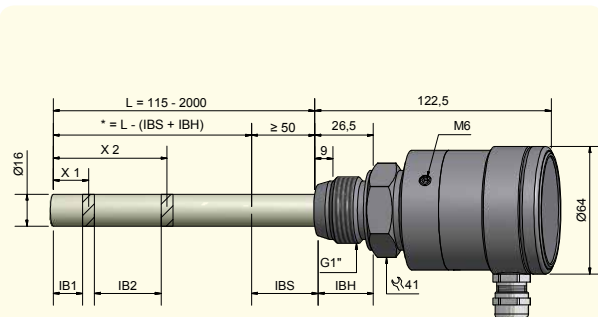
- Integrated evaluation electronics
- Housing material (active zone): See below, Ø 16 mm
- Connection head and process connection stainless steel VA
- Process connection G1"
- Probe length max. 2000 mm



Technical data

Active zones, related to probe tip	10...25 mm + 1 x type specific X2	10...25 mm + 1 x type specific X2
Electrical version	4 connections DC	4 connections DC
Output function	Normally open	Normally open
Type NPN	KFX-52-15-"L"-15/X2-GFK/VAc-D16-PHG1-N-S-KL	KFX-52-15-"L"-15/X2-PTFE/VAc-D16-PHG1-N-S-KL
Connection diagram No.	1	1
Type PNP	KFX-52-15-"L"-15/X2-GFK/VAc-D16-PHG1-P-S-KL	KFX-52-15-"L"-15/X2-PTFE/VAc-D16-PHG1-P-S-KL
Connection diagram No.	2	2
Operating voltage (U_B)	18...36 V DC	18...36 V DC
Voltage drop max. (U_d)	≤ 2.5 V	≤ 2.5 V
Permitted residual ripple max.	25 %	25 %
Operating current (I_B)	2 x 0...250	2 x 0...250
No-load current (I_O)	Typ. 50 mA	Typ. 50 mA
Switching frequency max.	4 Hz	4 Hz
Permitted ambient temperature	-25...+55 °C	-25...+55 °C
Permitted ambient temperature (for active zone)	-25...+100 °C	-25...+100 °C
Pressure	25 bar	2 bar
LED-Display	Green / yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 67	IP 67
Norm	EN 60947-5-2	EN 60947-5-2
Connection	Clamp terminal within the connection head	Clamp terminal within the connection head
Housing material	VA No. 1.4404 / AISI 316 L (FDA conform)	VA No. 1.4404 / AISI 316 L (FDA conform)
Active zone	GFK	PTFE (FDA 21 CFR 177.1550)

For matching accessories please see our selection of accessories.



Please determine the total length „L“ and the position of the second switching point „X2“ when ordering.

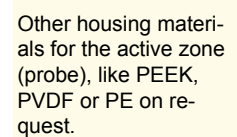
Other housing materials for the active zone (probe), like PEEK, PVDF or PE on request.



2 Limit value switching points

- 
- 100°C
212°F
High Temperature

For matching accessories please see our selection of accessories.





PER LeVeL Capacitive Filling Level Probe - KFX

NPN Output - Antivalent (NO + NC)

PNP Output - Antivalent (NO + NC)

2 Limit value switching points / MIN/MAX-Control

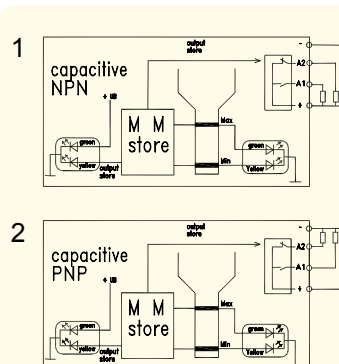
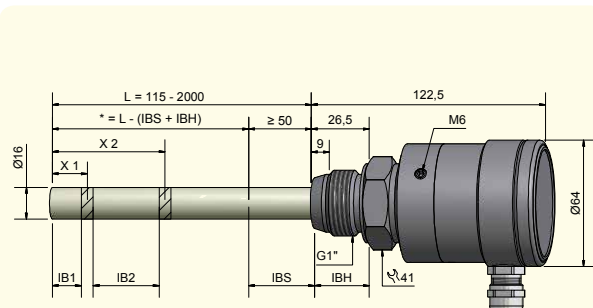
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- Housing material (active zone): See below, Ø 16 mm
- Connection head and process connection stainless steel VA
- Process connection G1"
- Probe length max. 2000 mm



Technical data

Active zones, related to probe tip	10...25 mm + 1 x type specific X2	10...25 mm + 1 x type specific X2
Electrical version	4 connections DC	4 connections DC
Output function	Antivalent	Antivalent
Type NPN	KFX-52-15-"L"-15/X2-GFK/VAC-D16-PHG1-N-A-KL-E	KFX-52-15-"L"-15/X2-PTFE/VAC-D16-PHG1-N-A-KL-E
Connection diagram No.	1	1
Type PNP	KFX-52-15-"L"-15/X2-GFK/VAC-D16-PHG1-P-A-KL-E	KFX-52-15-"L"-15/X2-PTFE/VAC-D16-PHG1-P-A-KL-E
Connection diagram No.	2	2
Operating voltage (U _B)	18...36 V DC	18...36 V DC
Voltage drop max. (U _d)	≤ 2.5 V	≤ 2.5 V
Permitted residual ripple max.	25 %	25 %
Operating current (I _B)	2 x 0...250	2 x 0...250
No-load current (I _O)	Typ. 50 mA	Typ. 50 mA
Switching frequency max.	4 Hz	4 Hz
Permitted ambient temperature	-25...+55 °C	-25...+55 °C
Permitted ambient temperature (for active zone)	-25...+100 °C	-25...+100 °C
Pressure	25 bar	2 bar
LED-Display	Green / yellow	Green / yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 67	IP 67
Norm	EN 60947-5-2	EN 60947-5-2
Connection	Clamp terminal within the connection head	Clamp terminal within the connection head
Housing material	VA No. 1.4404 / AISI 316 L (FDA conform)	VA No. 1.4404 / AISI 316 L (FDA conform)
Active zone	GFK	PTFE (FDA 21 CFR 177.1550)

For matching accessories please see our selection of accessories.



Please determine the total length „L“ and the position of the second switching point “X2” when ordering.

Other housing materials for the active zone (probe), like PEEK, PVDF or PE on request.

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