Емкостные системы измерения уровня наполнения KFW

Технические характеристики

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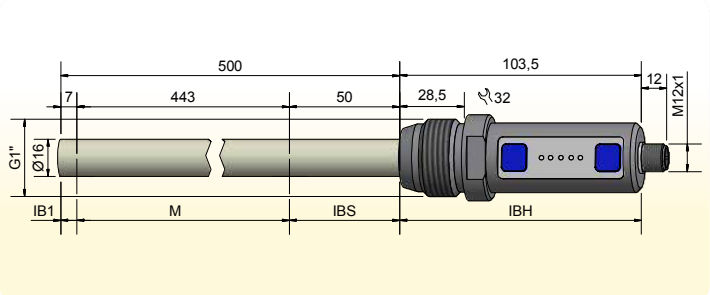
i-LεVεL Capacitive Filling Level Probe - KFW

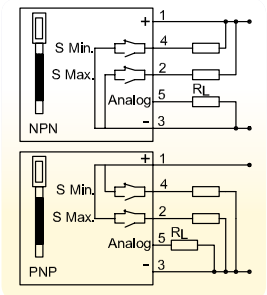
Analogue current output 4...20 mA
2 programmable limit value switching points

- Integrated evaluation electronics
- Housing material: GFK, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Multifunction probe: Automatic identification of NPN- / PNP function
- Normally open / normally closed function switchable
- Electronic lock

Technical data	
Active zone [mm]	443 mm
Electrical version	5 - pin DC
Output function	Analogue, 2 limit value switching points, Normally open / normally closed switchable
Type	**KFW-12-500-443-GFK/VAb-D16-G1-IL4-ETF-Y10**
Art.-No.	**KW 0102**
Operating voltage (U_B)	18...30 V DC
Permitted residual max.	5 %
Load resistance (R_L)	≤ 400 Ohm
Output current	100 mA
Power consumption (outputs no-load)	0,8 W
Analogue output	4...20 mA
Switching frequency max.	1 Hz
Permitted ambient temperature	-25...+55 °C
Permitted ambient temperature (for active zone)	-25...+100 °C
Pressure	10 bar
LED-Display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305 / AISI 303 / polyester
Active zone	GFK
For matching connectors please see our selection of accessories.	

*Where applicable





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

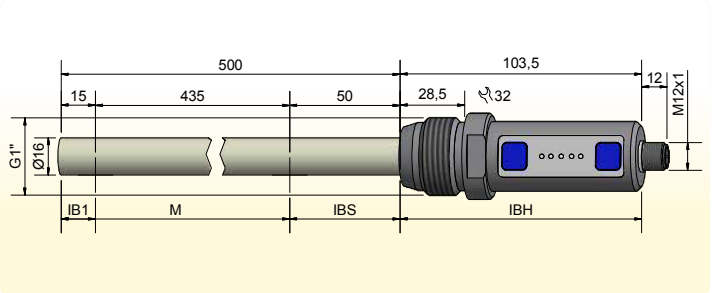
i-LEVEL Capacitive Filling Level Probe - KFW

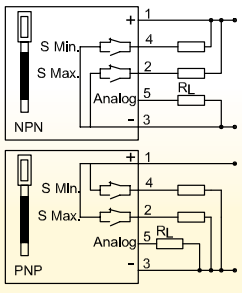
Analogue current output 4...20 mA
2 programmable limit value switching points

- Integrated evaluation electronics
- Housing material: PTFE, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Multifunction probe: Automatic identification of NPN- / PNP function
- Normally open / normally closed function switchable
- Electronic lock

Technical data	
Active zone [mm]	435 mm
Electrical version	5 - pin DC
Output function	Analogue, 2 limit value switching points, Normally open / normally closed switchable
Type	**KFW-12-500-435-PTFE/VAb-D16-G1-IL4-ETF-Y10**
Art.-No.	**KW 0025**
Operating voltage (U_B)	18...30 V DC
Permitted residual max.	5 %
Load resistance (R_L)	≤ 400 Ohm
Output current	100 mA
Power consumption (outputs no-load)	0,8 W
Analogue output	4...20 mA
Switching frequency max.	1 Hz
Permitted ambient temperature	-25...+55 °C
Permitted ambient temperature (for active zone)	-25...+100 °C
Pressure	1 bar
LED-Display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305 / AISI 303 / polyester
Active zone	PTFE (FDA 21 CFR 177.1550)
For matching connectors please see our selection of accessories.	

*Where applicable





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

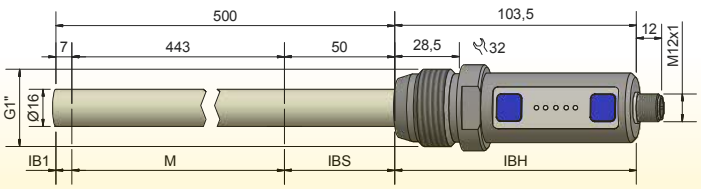
i-LEVEL Capacitive Filling Level Probe - KFW

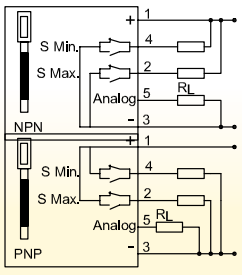
Analogue voltage output 0...10 V
2 programmable limit value switching points

- Integrated evaluation electronics
- Housing material: GFK, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Multifunction probe: Automatic identification of NPN- / PNP function
- Normally open / normally closed function switchable
- Electronic lock

Technical data	
Active zone [mm]	443 mm
Electrical version	5 - pin DC
Output function	Analogue, 2 limit value switching points, Normally open / normally closed switchable
Type	**KFW-12-500-443-GFK/VAb-D16-G1-UL0-ETF-Y10**
Art.-No.	**KW 0026**
Operating voltage (U_B)	18...30 V DC
Permitted residual max.	5 %
Load resistance (R_L)	≥ 2 K Ohm
Output current	100 mA
Power consumption (outputs no-load)	0,8 W
Analogue output	0...10 V
Switching frequency max.	1 Hz
Permitted ambient temperature	-25...+55 °C
Permitted ambient temperature (for active zone)	-25...+100 °C
Pressure	10 bar
LED-Display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305 / AISI 303 / polyester
Active zone	GFK
For matching connectors please see our selection of accessories.	

*Where applicable





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

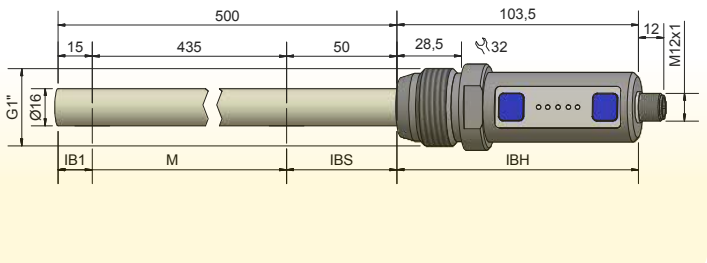
i-LεVεL Capacitive Filling Level Probe - KFW

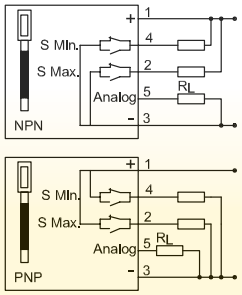
Analogue voltage output 0...10 V
2 programmable limit value switching points

- Integrated evaluation electronics
- Housing material: PTFE, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Multifunction probe: Automatic identification of NPN- / PNP function
- Normally open / normally closed function switchable
- Electronic lock

Technical data	
Active zone [mm]	435 mm
Electrical version	5 - pin DC
Output function	Analogue, 2 limit value switching points, Normally open / normally closed switchable
Typ	**KFW-12-500-435-PTFE/VAb-D16-G1-UL0-ETF-Y10**
Art.-Nr.	**KW 0027**
Operating voltage (U_B)	18...30 V DC
Permitted residual max.	5 %
Load resistance (R_L)	≥ 2 K Ohm
Output current	100 mA
Power consumption (outputs no-load)	0,8 W
Analogue output	0...10 V
Switching frequency max.	1 Hz
Permitted ambient temperature	-25...+55 °C
Permitted ambient temperature (for active zone)	-25...+100 °C
Pressure	1 bar
LED-Display	Green / yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305 / AISI 303 / polyester
Active zone	PTFE (FDA 21 CFR 177.1550)
For matching connectors please see our selection of accessories.	

*Where applicable





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

i-LEVEL Capacitive Filling Level Probe - KFW

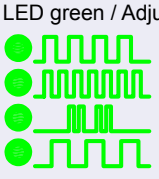
Analogue current output 4...20 mA

- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: GFK, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Probe length max. 2000 mm
- With flange connector M 12 x 1

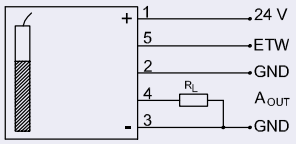
Technical data	
Active zones [M]	443 mm
Electrical version	5 - pin DC
Output function	Analogue
Type	**KFW-1-500-443-GFK/VAb-D16-G1-IL4-ETW-Y10**
Art.-No.	**KW 0028**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Load resistance (R_L)	≤ 200 Ω
Power consumption (outputs no-load)	0,9 W
Analogue output	4...20 mA
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1
Housing material	VA No. 1.4305 / AISI 303
Active zone	GFK
Lid	PC (FDA 21 CFR 177.1580)
For matching connectors please see our selection of accessories.	

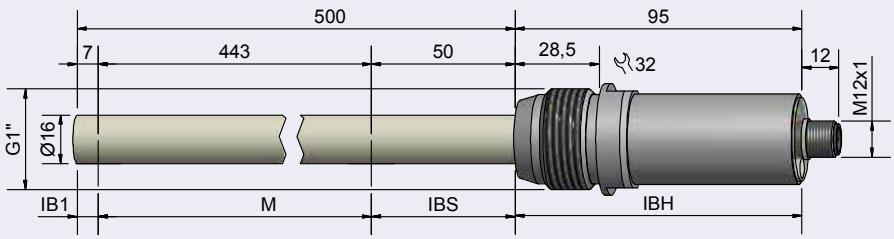
*Where applicable

EasyTeach chart:
LED green / Adjustment function



Adjustment Min.
Adjustment Max.
Factory set
Test





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

i-LEVEL Capacitive Filling Level Probe - KFW

Analogue current output 4...20 mA

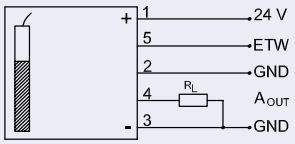
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: PTFE, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- With flange connector M 12 x 1 (5-pin Teach function included)

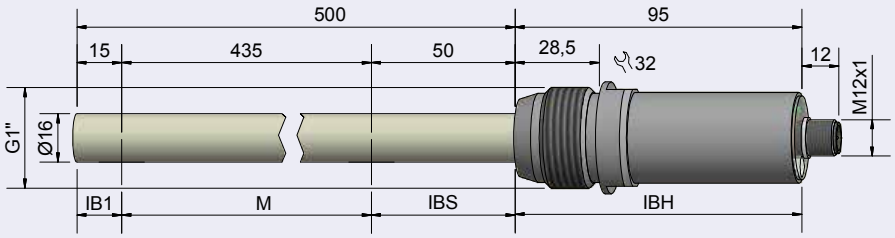
Technical data	
Active zones [M]	435 mm
Electrical version	4 - pin DC
Output function	Analogue
Type	**KFW-1-500-435-PTFE/VAb-D16-G1-IL4-ETW-Y10**
Art.-No.	**KW 0029**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Load resistance (R_L)	≤ 200 Ω
Power consumption (outputs no-load)	0,9 W
Analogue output	4...20 mA
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1 (5-pin)
Housing material	VA No. 1.4305 / AISI 303
Active zone	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
For matching connectors please see our selection of accessories.	

*Where applicable

EasyTeach chart:
LED green / Adjustment function

- Adjustment Min.
- Adjustment Max.
- Factory set
- Test





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

i-LEVEL Capacitive Filling Level Probe - KFW

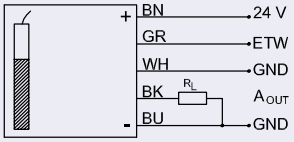
Analogue current output 4...20 mA

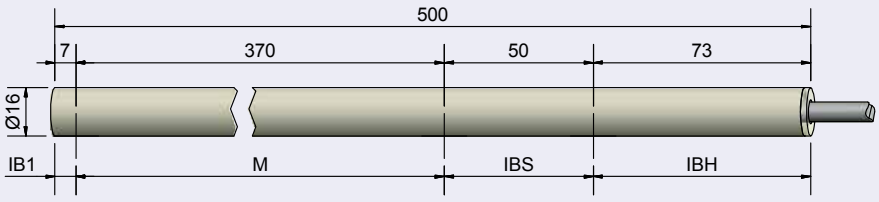
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: GFK, Ø 16 mm

Technical data	
Active zones [M]	370 mm
Electrical version	4 - wire DC
Output function	Analogue
Type	**KFW-1-500-370-GFK-D16-IL4-ETW-Z02**
Art.-No.	**KW 0030**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Load resistance (R_L)	≤ 200 Ω
Power consumption (outputs no-load)	0,9 W
Analogue output	4...20 mA
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm²
Housing material	GFK
Active zone	GFK
Lid	PC (FDA 21 CFR 177.1580)
Accessories for mounting (not delivered with the probe) please see our selection of accessories.	

*Where applicable

EasyTeach chart:
LED green / Adjustment function





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

i-LEVEL Capacitive Filling Level Probe - KFW

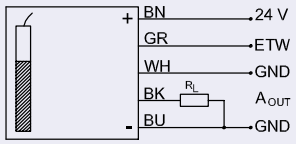
Analogue current output 4...20 mA

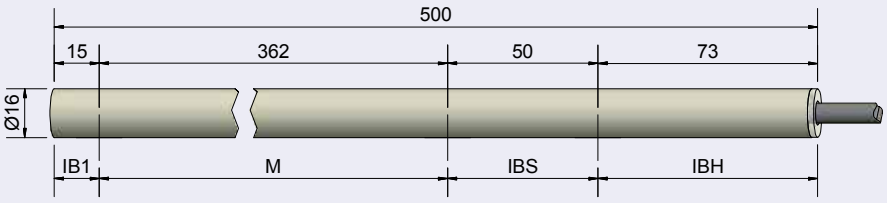
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: PTFE, Ø 16 mm

Technical data	
Active zones [M]	362 mm
Electrical version	4 - wire DC
Output function	Analogue
Type	**KFW-1-500-362-PTFE-D16-IL4-ETW-Z02**
Art.-No.	**KW 0031**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Load resistance (R_L)	≤ 200 Ω
Power consumption (outputs no-load)	0,9 W
Analogue output	4...20 mA
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active zone	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Accessories for mounting (not delivered with the probe) please see our selection of accessories.	

*Where applicable

EasyTeach chart:
LED green / Adjustment function





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

i-LεVεL Capacitive Filling Level Probe - KFW

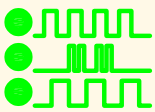
1 Limit value switching point

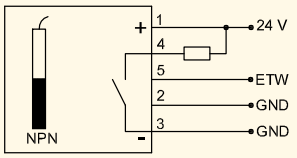
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: GFK, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Automatic identification of NPN / PNP function
- With flange connector M 12 x 1 (5-pin Teach function included)

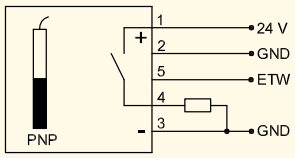
Technical data	
Active zones [M]	443 mm
Electrical version	4 - pin DC
Output function	1 limit value switching point, normally open
Type	**KFW-51-500-443-GFK/VAb-D16-G1-S-ETW-Y10**
Art.-No.	**KW 0032**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Output current max.	100 mA
Power consumption (outputs no-load)	0,9 W
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1 (5-pin)
Housing material	VA No. 1.4305 / AISI 303
Active zone	GFK
Lid	PC (FDA 21 CFR 177.1580)
For matching connectors please see our selection of accessories.	

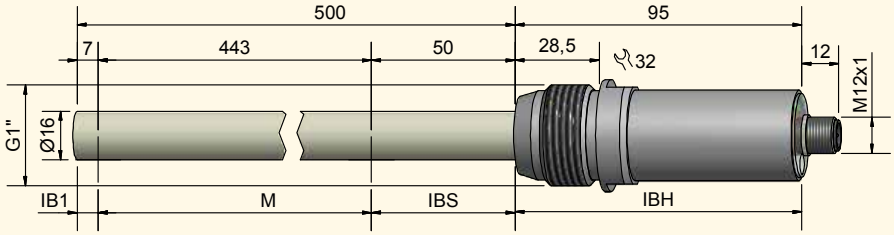
*Where applicable

EasyTeach chart:
LED green / Adjustment function









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

i-LEVEL Capacitive Filling Level Probe - KFW

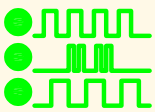
1 Limit value switching point

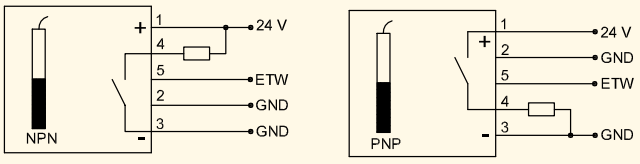
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: PTFE, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Automatic identification of NPN / PNP function
- With flange connector M 12 x 1 (5-pin Teach function included)

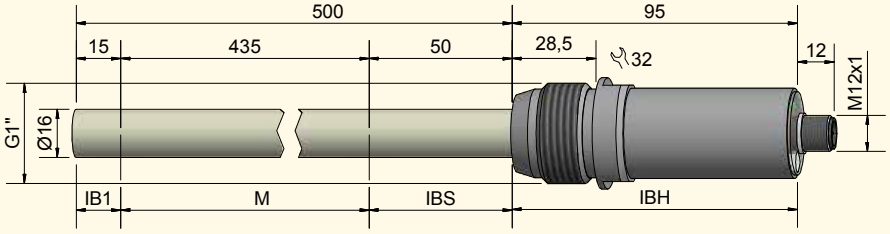
Technical data	
Active zones [M]	435 mm
Electrical version	4 - pin DC
Output function	1 limit value switching point, normally open
Type	**KFW-51-500-435-PTFE/VAb-D16-G1-S-ETW-Y10**
Art.-No.	**KW 0033**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Output current max.	100 mA
Power consumption (outputs no-load)	0,9 W
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1 (5-pin)
Housing material	VA No. 1.4305 / AISI 303
Active zone	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
For matching connectors please see our selection of accessories.	

*Where applicable

EasyTeach chart:
LED green / Adjustment function







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

i-LεVεL Capacitive Filling Level Probe - KFW

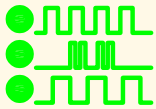
1 Limit value switching point

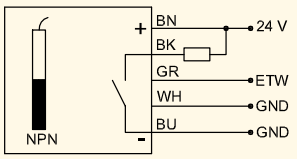
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: GFK, Ø 16 mm
- Automatic identification of NPN / PNP function

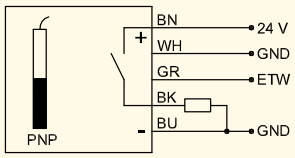
Technical data	
Active zones [M]	370 mm
Electrical version	4 - wire DC
Output function	1 limit value switching point, normally open
Type	**KFW-51-500-370-GFK-D16-S-ETW-Z02**
Art.-No.	**KW 0034**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Output current max.	100 mA
Power consumption (outputs no-load)	0,9 W
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm²
Housing material	GFK
Active zone	GFK
Lid	PC (FDA 21 CFR 177.1580)
Accessories for mounting (not delivered with the probe) please see our selection of accessories.	

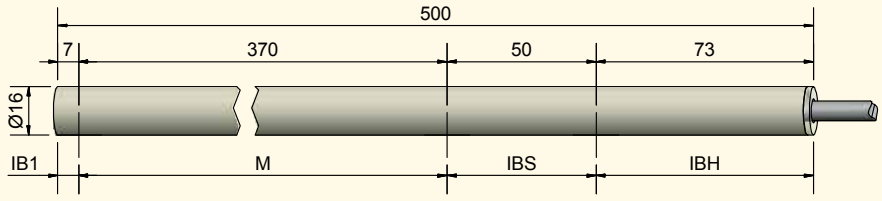
*Where applicable

EasyTeach chart:
LED green / Adjustment function









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

i-LEVEL Capacitive Filling Level Probe - KFW

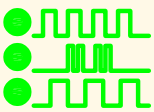
1 Limit value switching point

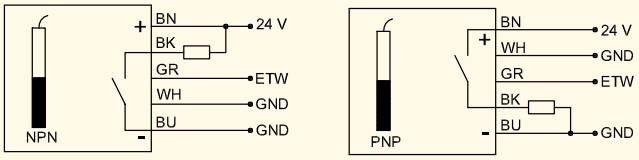
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: PTFE, Ø 16 mm
- Automatic identification of NPN / PNP function

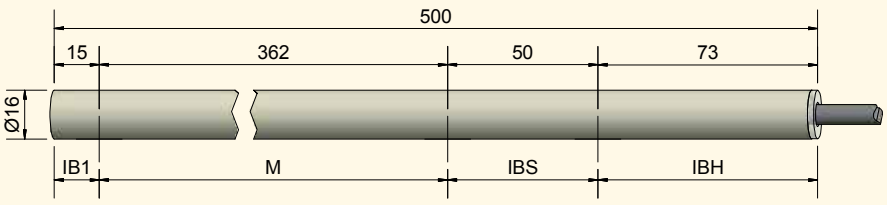
Technical data	
Active zones [M]	362 mm
Electrical version	4 - wire DC
Output function	1 limit value switching point, normally open
Type	**KFW-51-500-362-PTFE-D16-S-ETW-Z02**
Art.-No.	**KW 0035**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Output current max.	100 mA
Power consumption (outputs no-load)	0,9 W
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active zone	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Accessories for mounting (not delivered with the probe) please see our selection of accessories.	

*Where applicable

EasyTeach chart:
LED green / Adjustment function







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

i-LEVEL Capacitive Filling Level Probe - KFW

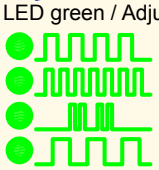
2 Limit value switching points

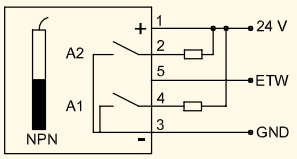
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: GFK, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Automatic identification of NPN / PNP function
- With flange connector M 12 x 1 (5-pin Teach function included)

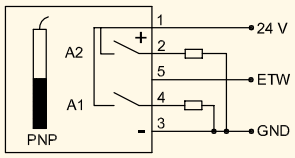
Technical data	
Active zones [M]	443 mm
Electrical version	4 - pin DC
Output function	2 limit value switching points, normally open
Type	**KFW-52-500-443-GFK/VAb-D16-G1-S-ETW-Y10**
Art.-No.	**KW 0036**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Output current max.	100 mA
Power consumption (outputs no-load)	0,9 W
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1 (5-pin)
Housing material	VA No. 1.4305 / AISI 303
Active zone	GFK
Lid	PA / PPO
For matching connectors please see our selection of accessories.	

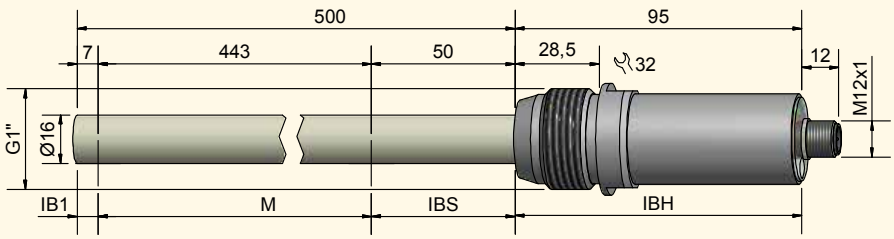
*Where applicable

EasyTeach chart:
LED green / Adjustment function









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

i-LEVEL Capacitive Filling Level Probe - KFW

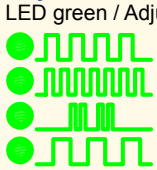
2 Limit value switching points

- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: PTFE, Ø 16 mm
- Connection head and process connection stainless steel VA no. 1.4305 / AISI 303
- Process connection G1”
- Automatic identification of NPN / PNP function
- With flange connector M 12 x 1 (5-pin Teach function included)

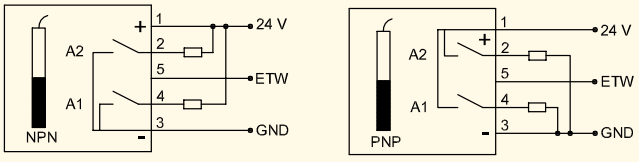
Technical data	
Active zones [M]	435 mm
Electrical version	4 - pin DC
Output function	2 limit value switching points, normally open
Type	**KFW-52-500-435-PTFE/VAb-D16-G1-S-ETW-Y10**
Art.-No.	**KW 0037**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Output current max.	100 mA
Power consumption (outputs no-load)	0,9 W
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection	Flange connector M 12 x 1 (5-pin)
Housing material	VA No. 1.4305 / AISI 303
Active zone	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
For matching connectors please see our selection of accessories.	

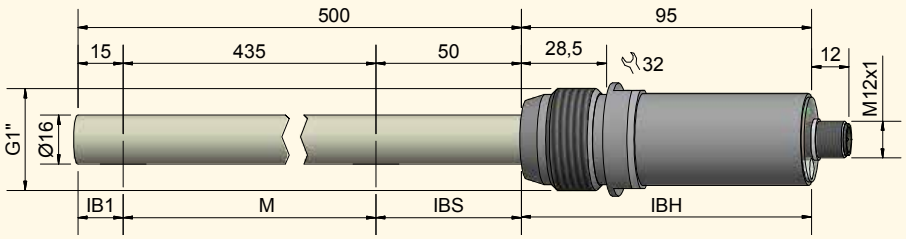
*Where applicable

EasyTeach chart:
LED green / Adjustment function



Adjustment S1
Adjustment S2
Factory set
Test





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

i-LεVεL Capacitive Filling Level Probe - KFW

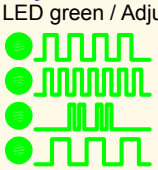
2 Limit value switching points

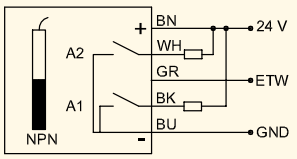
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: GFK, Ø 16 mm
- Automatic identification of NPN / PNP function

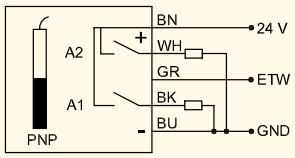
Technical data	
Active zones [M]	370 mm
Electrical version	4 - wire DC
Output function	2 limit value switching points, normally open
Type	**KFW-52-500-370-GFK-D16-S-ETW-Z02**
Art.-No.	**KW 0038**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Output current max.	100 mA
Power consumption (outputs no-load)	0,9 W
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm²
Housing material	GFK
Active zone	GFK
Lid	PC (FDA 21 CFR 177.1580)
Accessories for mounting (not delivered with the probe) please see our selection of accessories.	

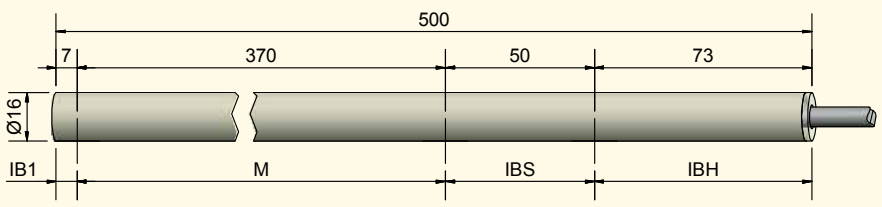
*Where applicable

EasyTeach chart:
LED green / Adjustment function









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

i-LEVEL Capacitive Filling Level Probe - KFW

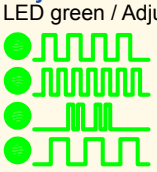
2 Limit value switching points

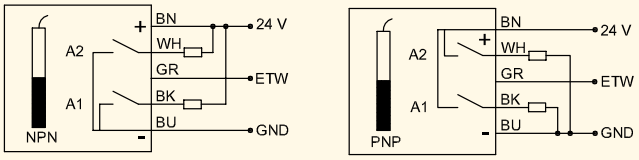
- Integrated evaluation electronics
- Easy Teach by wire
- Housing material: PTFE, Ø 16 mm
- Automatic identification of NPN / PNP function

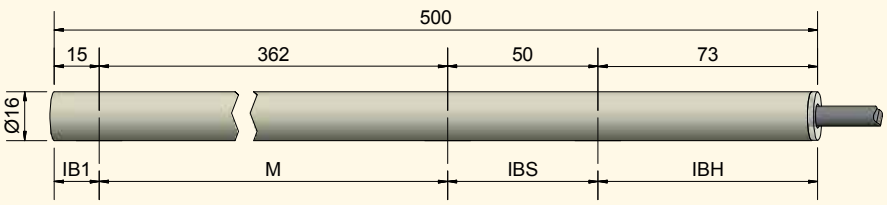
Technical data	
Active zones [M]	362 mm
Electrical version	4 - wire DC
Output function	2 limit value switching points, normally open
Type	**KFW-52-500-362-PTFE-D16-S-ETW-Z02**
Art.-No.	**KW 0039**
Operating voltage (U_B)	15...30 V DC
Permitted residual ripple max.	5 %
Output current max.	100 mA
Power consumption (outputs no-load)	0,9 W
Frequency of operating cycles max.	1 Hz
Permitted ambient temperature	-25...+70 °C
LED-Display	Green
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2*
Connection cable	2 m, PVC, 5 x 0.34 mm²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active zone	PTFE (FDA 21 CFR 177.1550)
Lid	PC (FDA 21 CFR 177.1580)
Accessories for mounting (not delivered with the probe) please see our selection of accessories.	

*Where applicable

EasyTeach chart:
LED green / Adjustment function







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

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