



TRUE L&VEL Capacitive filling level probe
Analogue voltage output 0...10 V / 10...0 V

- Integrated evaluation electronics
- Adjustable with Easy Teach by Membrane foil (ETF) / Easy Teach by wire (ETW)
- Housing material: PTFE, Ø 16 mm
- Connection head / process connection: Aluminium / Stainless steel VA no. 1.4305 (AISI 303)
- Process connection G1"
- Additional output in the reference range (normally open / normally closed switchable)



Technical data

| | |
|--------------------------------------|---|
| Active zone [M] | 865 mm |
| Output function | Analogue |
| Type | KFX-1-85-1000-865-PTFE/VAb/AL-D16-PHG1-UL-ET-Y10 |
| Art.-No. | KF 0644 |
| Operating voltage (U _B) | 18...36 V DC |
| Operating current (I _e) | 0...250 mA |
| Permitted residual ripple max. | 25 % |
| Load resistance (R _L) | ≤ 600 Ω |
| Power consumption (outputs no-load) | 3 W |
| Analogue output | 0...10 V / 10...0 V |
| Permitted ambient temperature | -25...+55 °C |
| Permitted product temperature | -25...+180 °C* |
| LED-Display | Green / blue |
| Protective circuit | Built-in |
| Degree of protection IEC 60529 | IP 65 |
| Norm | EN 60947-5-2** |
| Connection | Flange connector M 12 x 1 (A-coded) (5-pin) |
| Connection head / process connection | Aluminium / Stainless steel VA no. 1.4305 (AISI 303) |
| Housing material (active zone) | PTFE (FDA 21 CFR 177.1550) |
| Lid | PC (FDA 21 CFR 177.1580) |

For matching connectors please see our selection of accessories.

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

(1) Product temperature in °C
(2) Ambient temperature in °C

**Where applicable

All specifications are subject to change without notice. (06.01.2020)

Made in Germany

CAPACITIVE LEVEL PROBE

EasyTeach ETW and ETF

CAPACITIVE LEVEL MEASURING PROBE WITH EASYTEACH FUNCTION COMPENSATION OF THE DIELECTRIC CONSTANT

The probe has a reference area for the compensation of the dielectric constant (DC). Thanks to this function the probe will be adjusted with empty container and it detects reliable the level of liquids or bulk material with a dielectric constant (DC) from $\epsilon_r > 1,2$.

It could not be easier:

After the single setting on the empty container, the probe automatically adjusts itself to the material to be measured.

This saves the user a lot of time during the initial operation and is also particularly advantageous for applications with changing products.



- EASYTEACH BY MEMBRANE FOIL (ETF) AND EASYTEACH BY WIRE (ETW)
- SENSITIVITY ADJUSTMENT WITH EMPTY CONTAINER.
- EASY AND QUICK COMMISSIONING
- COMPENSATION OF THE DIELECTRIC CONSTANT (DC)

*Evaluation
Electronics integrated!*

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