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## SAFETY PRECAUTIONS

- Installation, initial start-up and maintenance may only be performed by trained personnel.
- All applicable European and national regulations regarding installation of electrical equipment must be adhered to.
- The device may only be operated under the conditions specified in the operating instructions.

## FUNCTIONS DESCRIPTION

With EF-probes the level of conductive liquids can be detected. Its function is based on the conductive measurement, i. e. the electrical resistance between the reference electrode and the probe electrode is measured. A high resistance is measured, if the conductive liquid is not wetting the electrode. A low resistance is measured, if the conductive liquid is wetting the electrode and "connecting" the electrodes. The connected resistive amplifier relay ES2001 detects this change of resistance and switches the attached relay contacts. EF 16 electrodes are equipped with one electrode. EFC 16 is equipped with a probe electrode and reference electrode (housing).

## **TECHNICAL FEATURES**

Housing:Stainless steel (316L)Electrode:Stainless steel (316L)Insolation:Delrin (Polyacetal)Max. temperature:100°CAttachment:Hanging on cableCable length:On request - The coaxial cable of EFC 16 electrodes is coated in PVC.CE Mark:In accordance with low-voltage directive RL 2006/95/EC and EMC directive 2004/108/EC

## **MOUNTING OF EF PROBE**



Cable with outer diameter Ø4 - Ø6mm, conductor Ø2mm **alternative:** coaxial cable





Putting on the upper part (with thread)



Placing neoprene sealing (Ø10.5x2 - 14.5mm)



Placing brass washer (Ø10x2 - 0.6mm)

alternative: remove coat, shield and



placing brass turning piece (ca. Ø8x8.5mm, tip with cone)



Placing brass turning piece up till cable coating



folding the conductor

Skinning ca. 15mm

dielectrikum



Putting on stainless turning piece



Putting on the coaxial cable and screwing it with the upper part





Don't forget to check the electric continuity to validate the good mounting of all parts.
EF probe: Check the electrical continuity between central part of the electrode and the main conductor at the other side of the coaxial cable.



