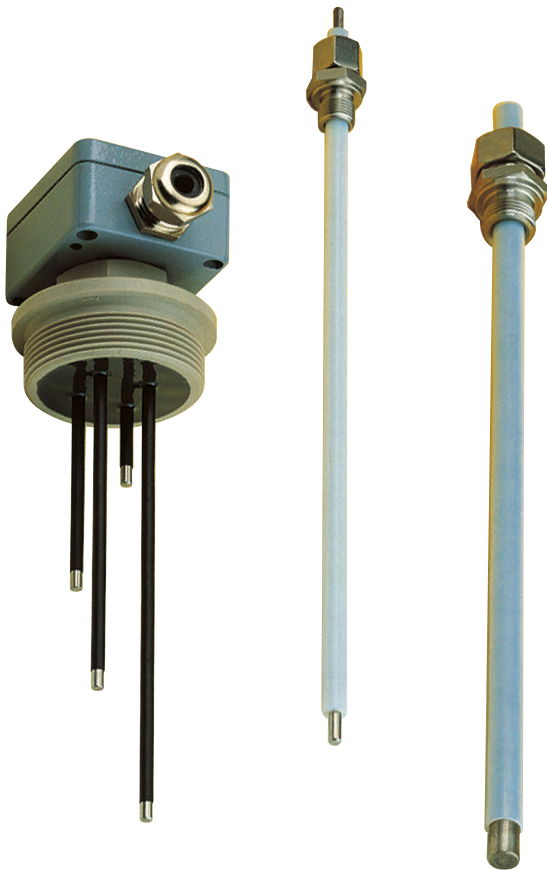




KS-02

Conductive Level Switch



Features

**/ Single or multiple electrodes
(up to 5 setpoints)**

/ Easy to assemble

/ Electrode rods made of st. steel

**/ Electrode relay for limit values,
pump control or pump control
with overflow and dry-run pro-
tection (see Data sheet ER-01)**

Description:

The KS-02 series of conductive level switches is intended, in combination with the electrode relay ER-01, for obtaining the level of conductive fluids. An AC voltage is connected to an electrode insulated from the vessel. When the medium contacts this electrode, a small current flows from the electrode through the medium to the vessel wall (in the case of plastic vessels to a separate ground electrode). This flow of current is picked up by the electrode relay and transmitted as a switching signal.

Application:

- for determining limit level in vessels with conductive fluids
- full or empty reporting
- level control between two levels
- overflow protection
- dry-run protections

Benefits:

- no mechanical moving components
- independent of specific weight of medium
- compact design
- possible to mount vertically or horizontally



Versions:

- KS-02.01. . .05:** Single electrode with fixed screw on thread or with cutting ring joint for adjusting the electrode length
Electrical connection: PVC or silicon cable or polyester terminal housing
- KS-02.25. . .28:** Multiple electrodes
max. number of electrodes depends on size of joint
Electrical connection: polyester terminal housing

Technical Specifications:

- max. Pressure /** 1 bar (single electrode), up to 100 bar, on request pressureless (multiple electrodes)
- max. Media temp. /** +100°C (single electrodes)
+80°C (single electrodes, adjustable and multiple electrodes)
- Coating /** Teflon

Dimensions in mm:

Ordering Codes:

| | | | | | | | |
|--|---------------|------------|-----------|-----------|-----------|------------|-----------|
| Order number | KS-02. | 01. | 2. | 3. | 1. | xP. | L1 |
| KS-02 Conductive Level Switch | | | | | | | |
| Process connection / | | | | | | | |
| Single electrodes | | | | | | | |
| 01 = G 1/4" male | | | | | | | |
| 01V = G 1/4" male adjustable | | | | | | | |
| 02 = G 3/8" male | | | | | | | |
| 02V = G 3/8" male adjustable | | | | | | | |
| 03 = G 1/2" male | | | | | | | |
| 03V = G 1/2" male adjustable | | | | | | | |
| 05 = G 1" male | | | | | | | |
| Multiple electrodes | | | | | | | |
| 25 = G 1" male (max. 2 Electrodes) | | | | | | | |
| 26 = G 1 1/4" male (max. 3 Electrodes) | | | | | | | |
| 27 = G 1 1/2" male (max. 3 Electrodes) | | | | | | | |
| 28 = G 2" male (max. 5 Electrodes) | | | | | | | |
| 99 = special type connection | | | | | | | |
| Material for process connection / | | | | | | | |
| 2 = stainless steel | | | | | | | |
| 3 = PP (starting from G 1 1/2") | | | | | | | |
| Number of electrodes / | | | | | | | |
| 1..5 | | | | | | | |
| Electrode material / | | | | | | | |
| 1 = stainless steel | | | | | | | |
| Electrical connection / | | | | | | | |
| Single electrodes only | | | | | | | |
| xP = PVC cable, x = length in m (standard = 3 m) T = -5...+80°C | | | | | | | |
| xS = Silicone cable, x = length in m (standard = 3 m) T = -5...+80°C | | | | | | | |
| Single or multiple electrodes | | | | | | | |
| K = polyester terminal connection housing (starting from G 3/8") | | | | | | | |
| 9 = special type connection | | | | | | | |
| Other details / | | | | | | | |
| L1, L2, L3... = length of individual electrodes from sealing edge of screw joint | | | | | | | |

