Capacitive Level Switch
MLC420/422

- 2-port isolation
- Microprocessor controlled measurement
- Parametrization via GHMware and adapter EYY120
- No moving parts in the medium
- Switching function depends to the polarity of the supply voltage
- Condensate-stability type

Technical data

**Power supply**
- Supply voltage: 18..30 V DC, max. 50 mA
- CE-conformity: EN 61326:2007-05

**Ambient conditions**
- Ambient temperature: -20..+80 °C
- Climatic class: EN 60068-2-38:2010-06
- Vibration class: EN 60068-2-6, GL test2

**Sensor**
- Radiated frequency: 40.68 MHz, <1 mW
- Measuring range: DK-value 5..175 (MLC420), DK-value 1..175 (MLC422)
- Factory setting: DK-value = 20 (MLC420), DK-value = 1 (MLC422)
- Initialization time: 3 s
- Process temperature: -20..+100 °C, 140 °C < 30 min
- CIP-/SIP-capable
- Process pressure: -1..10 bar
- Process material: PEEK, FDA approval number 21CFR177.2415
- Surface quality: R_a ≤ 0.8μm
- Process connection: G1/2'' hygienic
- Stud torque: 5..10 Nm
- Mounting direction: arbitrary, see mounting notes

**Output**
- Switching output: transistor PNP / NPN
- max. 30 V / 100 mA
- Response time: programmable from 0.01..10 s
- Isolation: sensor, case/supply, outputs

**Case**
- Material: 1.4305
- Protection class: IP67 / IP69K

Connection diagram

M12 plug (PNP = factory setting)

Cable colors: 1 = brown, 2 = white, 3 = blue, 4 = black

Ordering code

1. Measuring range
   - DK-value 5..175
   - DK-value 1..175

2. Switching output
   - PNP (standard)
   - NPN

3. Electrical connection
   - M12-plug

4. Inspection window
   - without window

5. Options
   - without option

6. Certificate DIN EN 10204 (indicate only when required, multiple responses possible)
   - RA08 R_a < 0.8μm (with acceptance test certificate 3.1 incl. measurement report)
   - RA06 R_a < 0.6μm (with acceptance test certificate 3.1 incl. measurement report)
   - WZ2.2 factory certification 2.2
   - APZMAT acceptance test certificate 3.1 for material (in contact with products)

Accessories:

- ACH connection cable
- APH process connection
- see separate product information GHMadapt/Accessories.
- EYY120 Programming adapter