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Member of GHM GROUP

Product Information — **Hygienic Design**

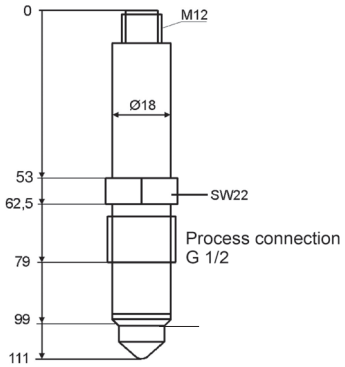
Capacitive Level Switch MLC420/422

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

Technical data

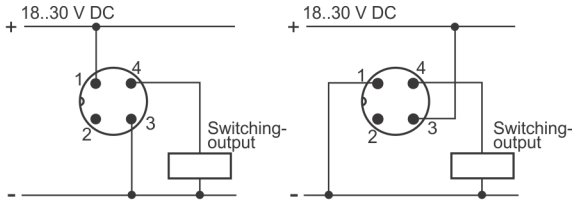
Power supply
Supply voltage : 18..30 V DC, max. 50 mA
Electrical connection : M12x1 plug
CE-conformity : EN 61326:2007-05
Ambient conditions
Ambient temperature : -20..+80 °C
Climatic class : EN 60068-2-38:2010-06
Vibration class : EN 60068-2-6, GL test2
Sensor
Radiated frequency : 40.68 MHz, <1 mW
Measuring 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
Conform regulation EC 1935/2004 & 10/2011
Surface quality : $R_a \leq 0{,}8\mu m$
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

Dimension



Connection diagram

M12 plug (PNP = factory setting)



NO function NC function

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

Ordering code

MLC42 1. [ ] - 2. [ ] - 3. [ ] - 4. [ ] - 5. [ ] - 6. [ ]

1.	**Measuring range**	
	0	DK-value 5..175
	2	DK-value 1..175
2.	**Switching output**	
	0	PNP (standard)
	1	NPN
3.	**Electrical connection**	
	0	M12-plug
4.	**Inspection window**	
	0	without window
5.	**Options**	
	00	without option
6.	**Certificate DIN EN 10204 (indicate only when required, multiple responses possible)**	
	RA08	$R_a < 0{,}8\mu m$ (with acceptance test certificate 3.1 incl. measurement report)
	RA06	$R_a < 0{,}6\mu m$ (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