

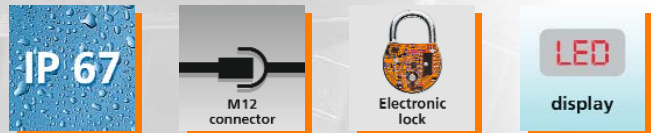


High flexibility due to modular sensor system.



Improved performance, now also for oils.

- Versions with 2 or 4 switching outputs or analogue output 4...20 mA / 0...10 V.
- Easy operation via the user menu.
- Direct indication of the current level on the LED display.
- Sensor lengths up to 160 cm.
- If necessary, the sensor rod can be cut to length by the user.



Application

efector gwr operates to the principle of guided wave radar and measures the level using electromagnetic pulses in the nanosecond range. The sensor is suited to continuous level monitoring in almost all liquids.

Mounting

The sensor is directly mounted in the tank using a process connection or flange plate. If necessary, the sensor rod can be easily shortened and adapted to the tank by the user.

Setting

Settings of all parameters as well as programming of the switch points and indication of the current level are carried out via a 4-digit alphanumeric display.



fluid sensors and diagnostic systems

position sensors and object recognition

bus, identification and control systems

Sensor length up to 1600 mm

Applications:

aqueous media, coolants, cleaning agents, oils*.

Process connection	Switch point accuracy [cm]	Repeatability [cm]	Maximum vessel pressure [bar]	Protection	Order no.
M12 connector · output function 1 x / programmable / 1 x analogue 4...20 mA / 0...10 V · 4-wire DC PNP					
G 3/4	± 1.5	± 0.5	-1...4	IP 67, III	LR3000
M12 connector · output function 2 x / programmable · 4-wire DC PNP					
G 3/4	± 1.5	± 0.5	-1...4	IP 67, III	LR7000
M12 connector · output function 4 x / programmable · 8-wire DC PNP					
G 3/4	± 1.5	± 0.5	-1...4	IP 67, III	LR8000

Probes (to be ordered separately)

Type	Description stainless steel (303S22)	Order no.
	240 mm	E43203
	450 mm	E43204
	700 mm	E43205
	1000 mm	E43207
	1200 mm	E43208
	1400 mm	E43209
	1600 mm	E43210

Coaxial pipes (to be ordered separately)

Type	Description stainless steel (303S22)	Order no.
G 3/4 	240 mm	E43211
	450 mm	E43212
	700 mm	E43213
	1000 mm	E43214
	1200 mm	E43215
	1400 mm	E43216
NPT 3/4" 	450 mm	E43218
	700 mm	E43219
	1000 mm	E43220
	1600 mm	E43221

Accessories

Type	Description	Order no.
	Flange plate, LR 73-90	E43201
	Flange plate, LR 73-90, NPT	E43206
	Flange plate, LR 65-80	E43202

Further technical data

Operating voltage	[V]	18...30 DC
Current rating	[mA]	200
Current consumption	[mA]	< 80
Power-on delay time	[s]	3
Dielectric constant medium		2...20* > 20
Operating temperature	[°C]	0...60
Medium temperature	[°C]	0...80 / (90 peak)
Materials in contact with the medium		stainless steel (303S22), PTFE, NBR
Housing materials		FKM, NBR, PBT, PC, TPE-V, stainless steel (304S15), PTFE, PEI

Connectors and splitter boxes

Type	Description	Order no.
	Socket, M12, 4-pole 2 m black, PUR cable	EVC004
	Socket, M12, 4-pole 5 m black, PUR cable	EVC005
	Socket, M12, 4-pole 2 m black, PUR cable, LED	EVC007
	Socket, M12, 4-pole 5 m black, PUR cable, LED	EVC008
	Socket, M12, 8-pole 2 m black, PUR cable	E11231
	Socket, M12, 8-pole 5 m black, PUR cable	E11232

* A coaxial pipe is required for the unit to function correctly in low dielectric media.

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