

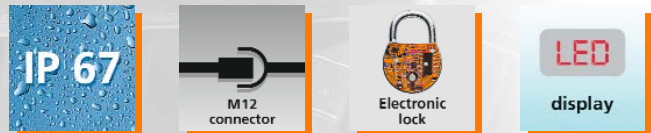


# High flexibility due to modular sensor system.



## 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.
<b>M12 connector · output function 1 x  /  programmable / 1 x analogue 4...20 mA / 0...10 V · 4-wire DC PNP</b>					
G 3/4	± 1.5	± 0.5	-1...4	IP 67, III	LR3000
<b>M12 connector · output function 2 x  /  programmable · 4-wire DC PNP</b>					
G 3/4	± 1.5	± 0.5	-1...4	IP 67, III	LR7000
<b>M12 connector · output function 4 x  /  programmable · 8-wire DC PNP</b>					
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	<b>E43203</b>
	450 mm	<b>E43204</b>
	700 mm	<b>E43205</b>
	1000 mm	<b>E43207</b>
	1200 mm	<b>E43208</b>
	1400 mm	<b>E43209</b>
	1600 mm	<b>E43210</b>

**Coaxial pipes (to be ordered separately)**

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

**Accessories**

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

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	<b>EVC004</b>
	Socket, M12, 4-pole 5 m black, PUR cable	<b>EVC005</b>
	Socket, M12, 4-pole 2 m black, PUR cable, LED	<b>EVC007</b>
	Socket, M12, 4-pole 5 m black, PUR cable, LED	<b>EVC008</b>
	Socket, M12, 8-pole 2 m black, PUR cable	<b>E11231</b>
	Socket, M12, 8-pole 5 m black, PUR cable	<b>E11232</b>

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

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