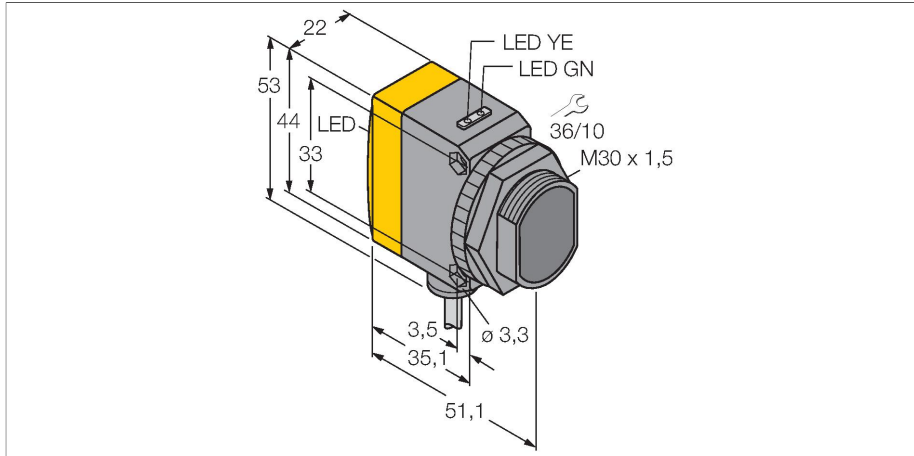


QS30EXSH2O W/30
Photoelectric Sensor – Opposed Mode Sensor (Emitter)
For Water Detection



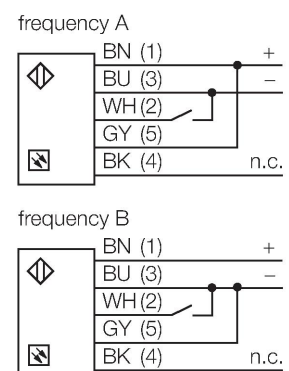
Technical data

Type	QS30EXSH2O W/30
ID no.	3083299
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	1450 nm
Range	0...8000 mm
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 100 ms
Response time typical	< 10 ms
Mechanical data	
Design	Rectangular with thread, QS30
Dimensions	Ø 30 x 54.3 x 22 x 53 mm
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC
Number of cores	4
Core cross-section	0.5 mm ²
Ambient temperature	-20...+60 °C
Protection class	IP67

Features

- Cable, PVC, 9 m
- Protection class IP67
- LED all-round visible
- Selectable operating frequency, protection against crosstalk
- Emitter LED, switchable
- Operating voltage: 10...30 VDC

Wiring diagram



Functional principle

The opposed mode sensor incorporates an emitter and a receiver. The emitter emits light in the near IR range with a wavelength of 1450 nm, which approximates one of the absorption edges of water. The resulting high contrast ratio leads to a particularly high sensitivity with water or media containing water as opposed to transparent media.

Technical data

Special features	Encapsulated Water detection
Power-on indication	LED, Green
Error indication	LED, green
Excess gain indication	LED
Tests/approvals	
Approvals	CE

Accessories

