Optical level sensor

Characteristics

0420 - OPTOELRKTRO - LEVEL SCAN



-	Measuring range	up to 4000 mm
-	Accuracy	± 3 mm
-	Tank geometry	standard formats + 20 measuring points
-	Sampling rate	1 Hz
-	Output	4 20 mA
-	Supply	8 33 VDC
-	Workspace	- 20 80 °C
-	Settings	fixed measuring ranges
-	Material	Polycarbonate / NBR gasket
-	Protection Class	IP68
-	Dimensions	Ø 66 x 31 mm

Specifications

Entrance

Level 0... 4000 mm

Medium no surface contact necessary, even aggressive media possible

Output

Current signal 4... 20 mA Resolution 0.01 mA

Performance Parameters

Measuring range 0... 4000 mm

Consumption < 70 mA / 12 V or < 40 mA / 24 V

Scanning 1 Hz

Accuracy 30 mm 2 mm in good measurement conditions

Resolution 1 mm

Possible tank formats standard

irregular tank geometries possible, up to 20 programmable measuring points

Laser class 1 ~ 920 nm (frequency outside of any eye damage)

Blind spot 30 mm

Filter non-static tank situations possible

Applications

Thanks to the low-power laser technology, the level sensor is a high-precision level measurement instrument. Non-contact measurement and the robust housing design enable more aggressive measurement environments without the usual material wear.







Technical data (continued)

Environmental Conditions

Workspace -20... 80 °C Storage -20... 80 °C

Measurement situation industrial, static, moving, irregular tank shapes

Supply

Bus bar 8... 33 VDC

reverse polarity protection



Two types of accessory cables, sold separately:

1 m PVC 4-Pin sensor cable with M12 female connector

3 m PVC 4-Pin sensor cable with M12 female connector

Connection diagram M12 female connector:



Configuration

Technology in fixed measuring ranges, fixed (see order code)

Certifications

CE; Laser class 1; ISO 16750-2

Mechanics

Dimensions 241.7 (total length over housing, cable, connector) **x** Ø 66 **x** 31 (height) mm

Case Polycarbonate

Class IP68

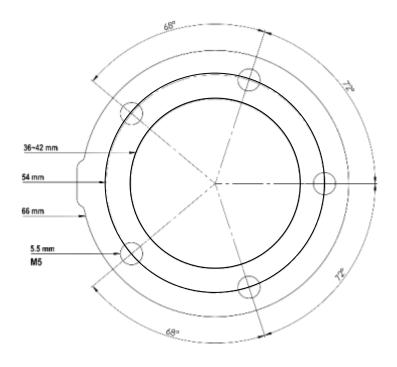
Mechanical connection SAE 5 hole (standard) 4 hole adapter (accessories)

max. built-in recess 47.8 mm

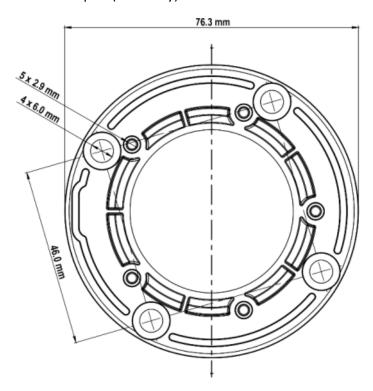
Cable 150 mm

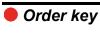
Plug M12 4-Pin female

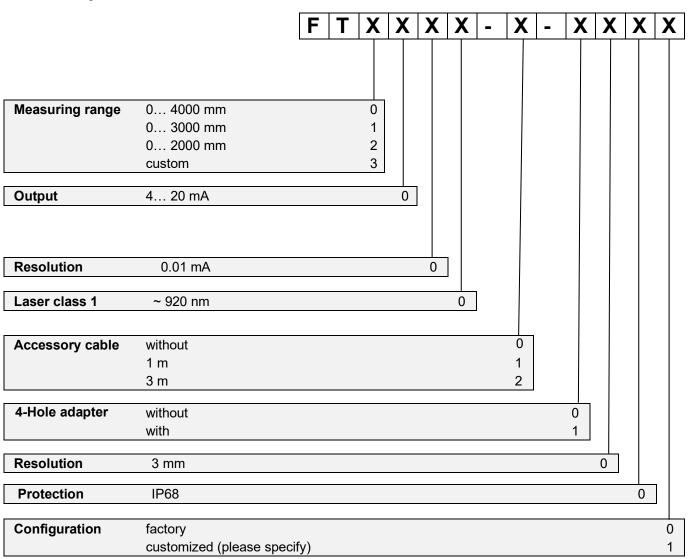
Installation diagram



Installation diagram 5- to 4-bolt adapter (accessory)







Hint:	Missing information when ordering will lead to delays.