CAPACITIVE LEVEL SWITCH WITH DISPLAY



- PROBE LENGTH 30 ... 250 MM
- SWITCHING OUTPUT PNP / NPN
- LED DISPLAY · KEY OPERATION
- PEEK PROBE · STAINLESS 316L
- G1/2 · IP67 · M12 × 1

IP67

Stainless Steel
AISI 316L · 1.4404

M12

Display

VERSIONS

Feature	Versions
Probe length	30 · 35 · 50 · 100 · 250 mm · custom length
Output	one switching output, PNP / NPN
Seal	standard · ED sealing ring

OVERVIEW

Capacitive level switch with bright LED display and key operation – switching output PNP or NPN, PEEK probe, G1/2 process connection in stainless steel 316L.

The electronics process the signal of the capacitive probe and convert it into a switching signal; the LED display shows the reading continuously. Settings are made with keys; normally open or normally closed and PNP or NPN are selectable. The one-piece injection-moulded plastic housing is protected to IP67, its display head rotates by 330°; it is connected via an M12 × 1 plug. The probe is available in lengths from 30 to 250 mm and as a custom length.

30 … 250 mm	< 100 ms	+85 °C	IP67
probe length	response time	max. medium temperature	protection class

PROBE AND PROCESS

- capacitive PEEK probe
- length 30 … 250 mm, custom length
- G1/2, stainless steel 316L
- medium –20 … +85 °C

SWITCHING

- one switching output PNP / NPN
- NO / NC selectable
- switching load < 200 mA
- response time < 100 ms

TECHNICAL DATA

DETECTION

Measuring principle	capacitive
Probe length	30 · 35 · 50 · 100 · 250 mm · custom length
Probe diameter	Ø 18 mm

TEMPERATURES

Medium temperature	–20 … +85 °C
Ambient temperature	–20 … +80 °C
Storage temperature	–30 … +80 °C

MECHANICAL PROPERTIES

Probe	PEEK
Process connection	G1/2, stainless steel 316L
Width across flats	27 mm
Seal	nitrile rubber / fluororubber
Housing	engineering plastic, one-piece injection-moulded
Protection class	IP67
Electrical connection	M12 × 1 connector

ELECTRICAL PROPERTIES

Supply voltage	12 … 30 V DC
No-load current	max. 30 mA at 24 V DC
Protection	reverse polarity, overload, short circuit

SWITCHING OUTPUT

Output type	PNP / NPN switchable, factory setting PNP
Switching function	NO / NC selectable
Switching load	< 200 mA
Response time	< 100 ms

DISPLAY AND OPERATION

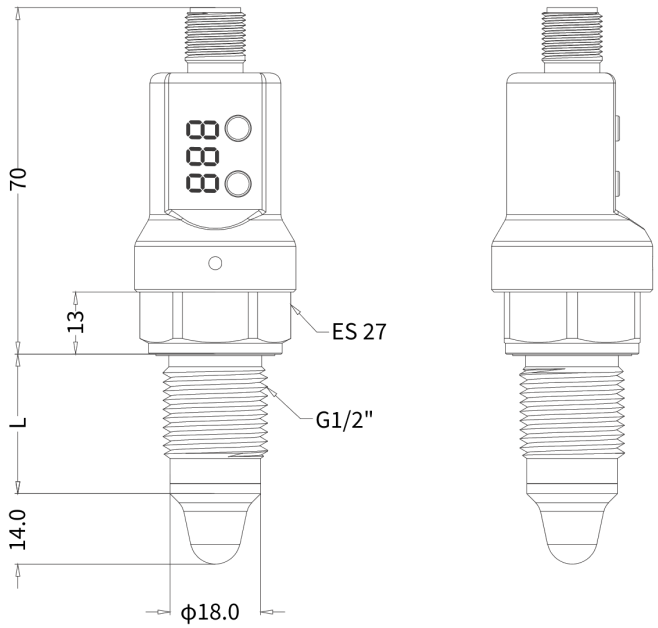
Display	LED, digital, high brightness
Operation	keys
Display head	rotatable 330°

PIN ASSIGNMENT M12 × 1 (4-PIN)

Pin · wire	Function	Signal
1 · BN brown	supply +	12 … 30 V DC
3 · BU blue	supply –	GND
4 · BK black	switching output SP1: PNP (default) / NPN	OUT
2 · WH white	not used	–

DIMENSIONS (mm)

Front and side view



Dimensions in mm. L = probe length, ES = width across flats, G1/2 = process thread. M12 × 1 connector.

COMPLIANCE AND CERTIFICATION

Protection Rating	IP67