

overview

- 12 mm
- NPN make function (NO)
- connector M12
- -40 ... 80 °C
- IP 68/69K & proTect+



Technical data

general data

mounting type	non-flush
special type	Outdoor design Washdown design
nominal sensing distance S _n	12 mm
hysteresis	2 ... 15 % of S _r
output indicator	LED red
approvals/certificates	Ecolab

electrical data

switching frequency	< 500 Hz
voltage supply range +V _s	10 ... 30 VDC
current consumption max. (no load)	10 mA
output circuit	NPN make function (NO)
voltage drop V _d	< 2 VDC
output current	< 200 mA
output current (at cleaning temperature)	< 100 mA

remarks

- Sensor FDA compliant and Ecolab approved
- LSR = Liquid Silicon Rubber

electrical data

short circuit protection	yes
reverse polarity protection	yes

mechanical data

type	cylindrical threaded
material (sensing face)	LCP
housing material	stainless steel 1.4404 (V4A); LSR
dimension	18 mm
housing length	60 mm
connection types	connector M12
tightening torque max.	55 Nm (Front: 38 Nm)

ambient conditions

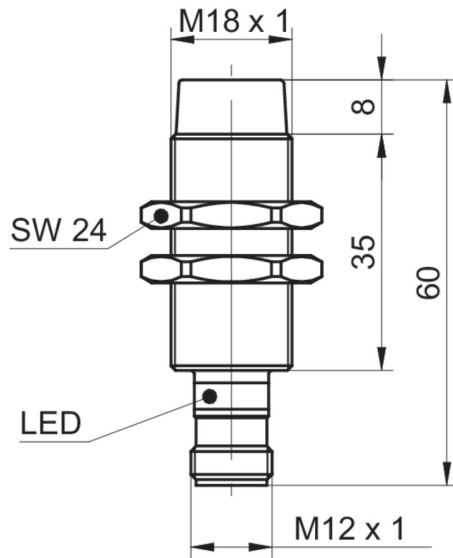
operating temperature	-40 ... +80 °C
cleaning temperature	80 ... +100 °C (30 min/day)
protection class	IP 68/69K & proTect+
vibration resistance	EN 61373: 2010 (category 3), 5h per axis (14.4 gRMS, 10-500 Hz, EN 60068-2-64)
shock resistance	EN 61373: 2010 (category 3), 10 bumps per axis (100 g, 6 ms, EN 60068-2-27)

IFRR 18N13T1/S14L-9

Inductive proximity switch - outdoor and washdown

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dimension drawing



connection diagram

