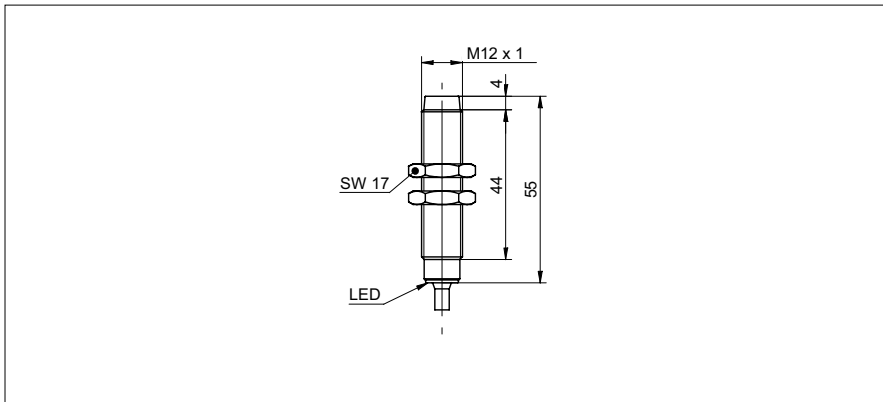


**Inductive proximity switch**

**IFRR 12P33T1/PL-9**

**dimension drawing**



**general data**

mounting type	non-flush
special type	Outdoor design
nominal sensing distance $S_n$	6 mm
hysteresis	2 ... 15 % of $S_r$
output indicator	LED red

**electrical data**

switching frequency	< 1 kHz
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	10 mA
output circuit	PNP break function (NC)
voltage drop Vd	< 2 VDC
output current	< 200 mA
output current (at cleaning temperature)	< 100 mA
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	12 mm
housing length	55 mm
connection types	cable PUR 3 x 0,25, 2 m

**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)

**photo**



**connection diagram**



• LSR = Liquid Silicon Rubber