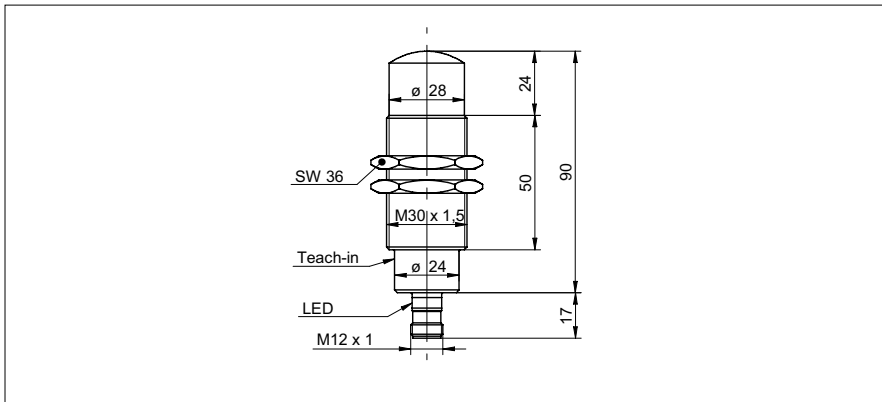


**Radar retro-reflective sensors**

**RR30.RAH5-11167369**

**dimension drawing**



**general data**

scanning range Sd	0,3 ... 8,5 m
reflector position Sde	0,3 ... 8,5 m
adjusting range reflector (operating range)	± 4 % Sde
adjusting range reflector (limit range)	± 8 % Sde
response time ton	< 5,3 ms
release time toff	< 5,3 ms
adjustment	qTeach / external
alignment aid	light indicator flashing
light indicator	LED yellow
power on indication	LED green
carrier frequency	122 ... 123 GHz
band width	1 GHz
range resolution	500 mm
modulation type	FMCW
transmitting power (EIRP)	< +20 dBm
aperture angle	6 °
approvals/certificates	Ecolab FCC / CFR-47 part 18 (USA, Canada) EN / 305 550-1 V.1.2.1 (European Union) EN / 305 550-2 V.1.2.1 (European Union)

**electrical data**

voltage supply range +Vs	12 ... 30 VDC
current consumption max. (no load)	210 mA
voltage drop Vd	< 2,5 VDC
short circuit protection	yes
reverse polarity protection	yes, Vs to GND
output circuit	push-pull
output current	< 100 mA

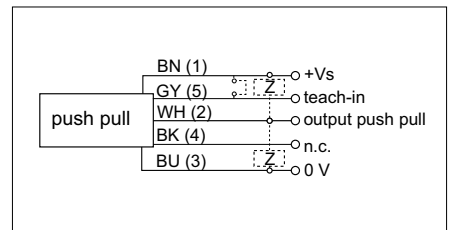
**mechanical data**

type	cylindrical threaded
housing material	stainless steel 1.4404 (V4A)
width / diameter	30 mm
height / length	90 mm
connection types	connector M12

**photo**



**connection diagram**



proTect<sup>+</sup>



**Radar retro-reflective sensors****RR30.RAH5-11167369****ambient conditions**

operating temperature	-40 ... +65 °C
storage temperature	-40 ... +85 °C
protection class	IP 68/69K & proTect+