



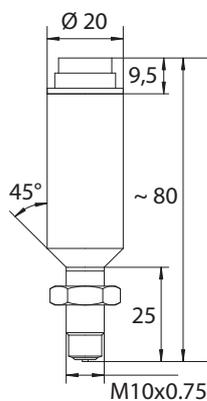
Inductive rotational speed sensor



Rotational speed measurement for special applications

The rotational speed sensor RS 210 works inductively and is able to detect the cogs of a cogwheel. After entering the number of cogs into the measuring instrument, a reliable rotational speed detection is assured. The sensor head must be mounted between 1.5 and 2 mm away from the cog wheel.

Dimensions



Qualities

Measuring principle	inductive with integrated amplifier switch
Measuring range	up to 5,000 divided by the number of cogs of the measured cog wheel
Output signal	frequency (rectangular signal)
Electrical measuring connector	5 pole device connector, M16 x 0.75
Mechanical connection thread	M 10 x 0.75
Material casing	Aluminium, anodized 20 µm, RAL 5015
Supply voltage U_b	6.5 ... 30 VDC
Current consumption	12 ... 15 mA
Overvoltage protection	36 VDC
Response time	0.1 ms
Frequency range	12.5 ... 5,000 Hz
Isolation resistor	1 MOhm
Total resistance	$R_g = U_b / 0.015 + I_L$
Load resistance	4 ... 20 kOhm
Environmental temperature	-20 ... +85 °C
Storage temperature	-20 ... +85 °C
EMV test	EN 50081-2, EN 50082-2
Mounting orientation	arbitrary
Weight	50 g

Pin assignment

Pin assignment	Frequency
	Pin 1 = signal +
	Pin 2 = - U_b / signal - / GND
	Pin 3 = + U_b
	Pin 4 = free
	Pin 5 = free

Output signal	Order number
Frequency	3107-00-09.00