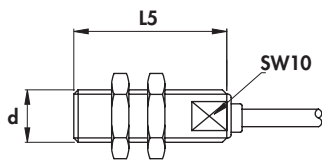


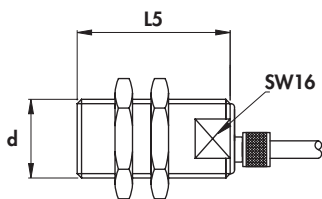
SPEED SENSORS FOR TOOTHED WHEELS

- Non aligned mounting
- For teeth ≥ 5 mm
- Cable output

Housing B-12



Housing B-13



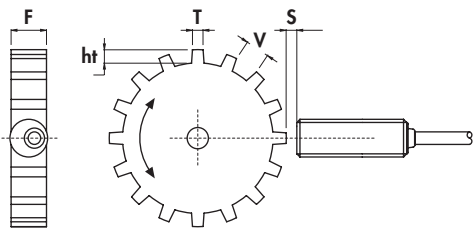
Diameter	M12 x 1	M18 x 1
Nut	Size	SW17
	Thickness mm	4
Max tightening torque Nm	20	50

Materials:

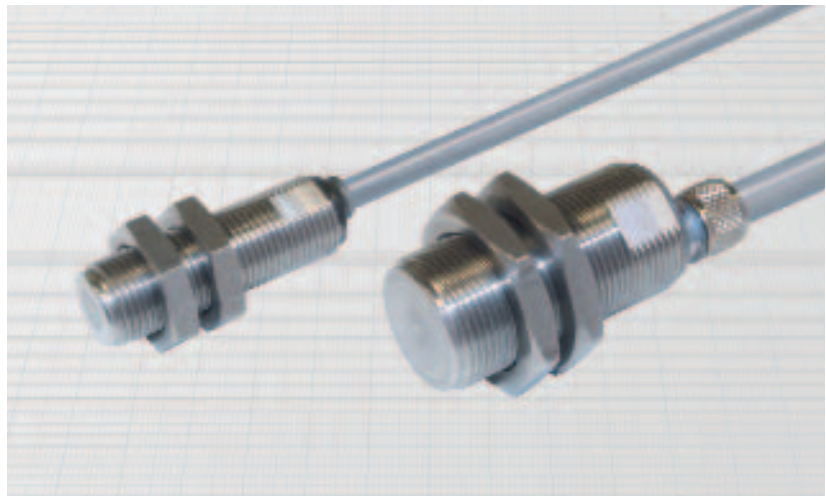
- Cable: 2 m thermoplastic, 300 V; O.R.
- Housing: stainless steel
- Back cap: plastic

Mounting and teeth dimension

The sensor axis must be perpendicular to the rotation axis of the gear.
Flat faces can be at any position respect the rotation plane of the gear.



Valley depth	ht	≥ 5 mm
Valley width	V	≥ 13 mm
Tooth width	T	≥ 5 mm
Gear tickness	F	≥ 5 mm
Operating distance	S	$0 \pm 1,5$ mm



General Features:

This sensor allows the detection with extremely high precision of the rotation of a ferrous toothed wheel and reference marks. Since it detects even frontal approaching of the target, it can be used as proximity switch. The frequency of the digital output signal is proportional to the rotation speed starting from zero. The output is open collector. The extremely strong construction allows the use in the most difficult conditions even with high pressures on the housing.

The sensor does not require any alignment to the rotation axis of the wheel.

Technical data:

- Supply voltage (U_B): $8 \div 30$ Vdc
- No-load supply current (I_0): ≤ 16 mA
- Voltage drop (U_d): $\leq 0,6$ V
- Temperature range: $-40^\circ \div +120^\circ$ C
- Degree of protection: IP68
- Max pressure on front side: 150 bar
- Protected against short-circuit and overload
- Protected against any wrong connection
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6
- Cable conductor cross section: $0,35$ mm² on 12 mm
 $0,50$ mm² on 18 mm

Housing	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Max switching frequency (f)	Rated operational current (I _e)	ORDERING REFERENCES			
										PNP		NPN	
B-12	-	-	-	-	35	4	M12 x 1	25	80	BRUS12X/4609KJ	BRUS12X/4608KJ		
B-13	-	-	-	-	35	5	M18 x 1	25	80	BRUS18X/4609KJ	BRUS18X/4608KJ		