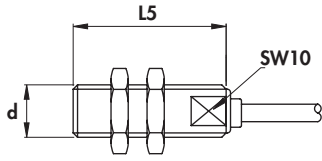
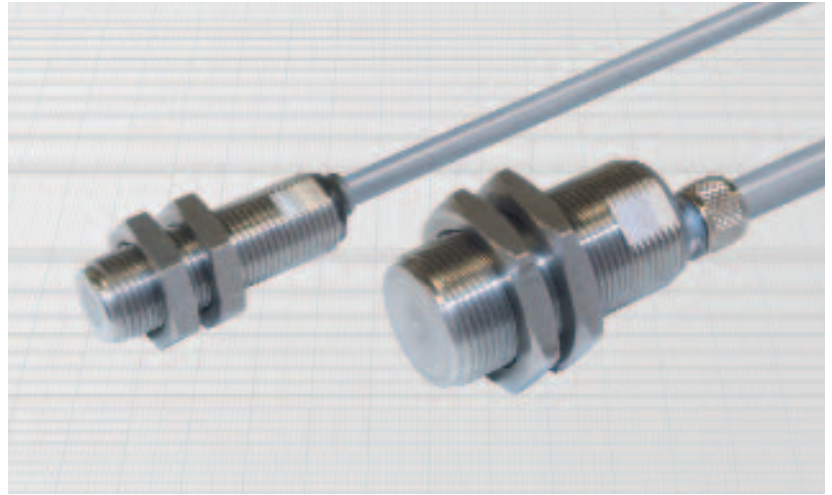
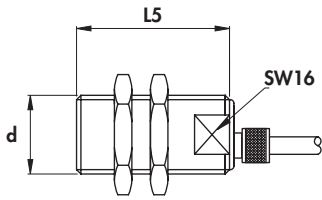


- Aligned mounting •
- For teeth  $\geq 2$  mm •
- Cable output •

**Housing B-12**



**Housing B-13**



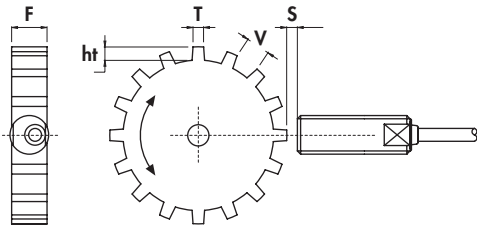
Diameter		M12 x 1	M18 x 1
Nut	Size	SW17	SW24
	Thickness mm	4	4
Max tightening torque Nm		20	50

**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 must be parallel to the rotation plane of the gear.



Valley depth	ht	> 2 mm
Valley width	V	> 2 mm
Tooth width	T	> 2 mm
Gear thickness	F	> 3 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. 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 must be aligned to the rotation axis of the wheel.

**Technical data:**

- Supply voltage ( $U_B$ ): 8  $\div$  30 Vdc
- No-load supply current ( $I_o$ ):  $\leq$  20 mA
- Voltage drop ( $U_d$ ):  $\leq$  0,6 V
- Temperature range: - 40  $\div$  +120°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 mm<sup>2</sup> on 12 mm  
0,50 mm<sup>2</sup> on 18 mm

Housing	L1	L2	L3	L4	L5	Cable diameter	Body diameter (d)	Max switching frequency (f)	Rated operational current (I <sub>o</sub> )	ORDERING REFERENCES			
										PNP		NPN	
B-12	-	-	-	-	35	4	M12 x 1	20	80	<b>BRS12X/4609KJ</b>	<b>BRS12X/4608KJ</b>		
B-13	-	-	-	-	35	5	M18 x 1	20	80	<b>BRS18X/4609KJ</b>	<b>BRS18X/4608KJ</b>		