

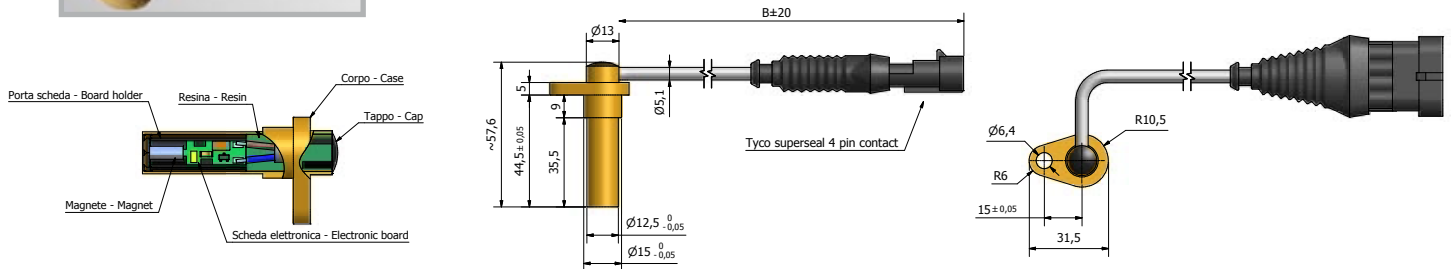
Sensori di velocità e direzione ad effetto Hall (1)

Hall effect speed and direction sensors (1)



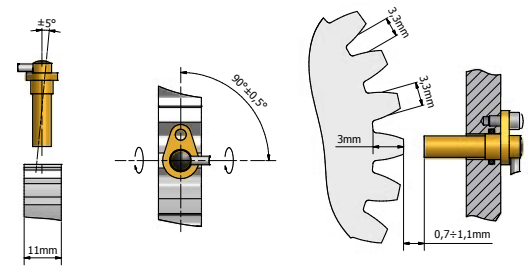
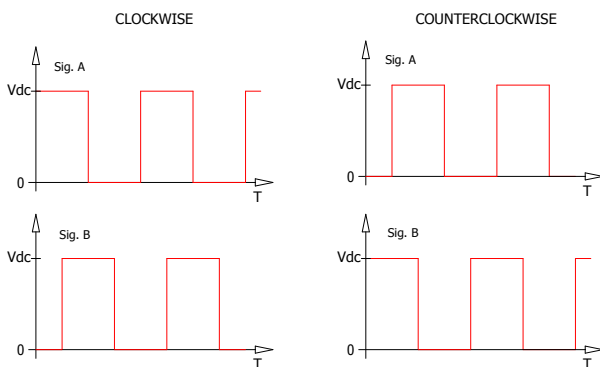
- Fissaggio con flangia
- Doppio sensore ad effetto Hall con sfasamento segnali di uscita di $\pm 90^\circ$
- Impiegabili nei settori automotive, agricolo, movimento terra, industriale, ferroviario, nautico e – su richiesta – militare.
- Fastening by flange
- Double Hall effect sensor with output signals with phase displacement of 90°
- Applicable in automotive, agricultural, earth-moving machinery, industrial, railway, nautic and – on demand – military fields

DIMENSIONS



APPLICATIONS

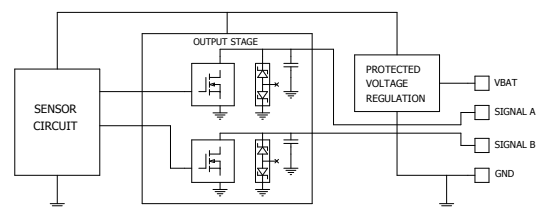
Output signal



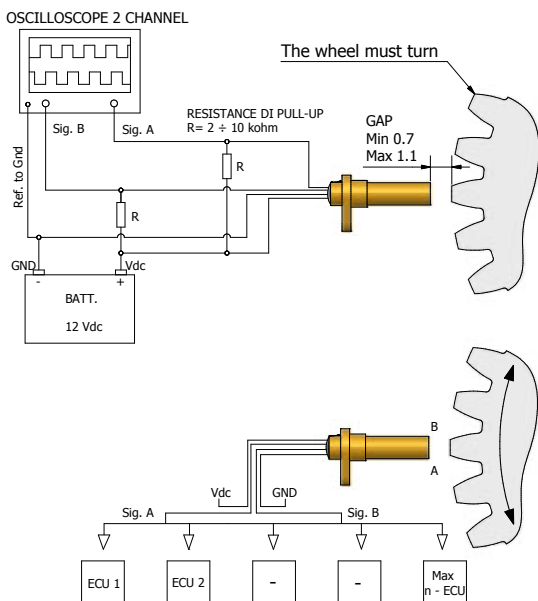
"L'esempio di ruota e gap indicato si riferisce a un profilo fonico di materiale ferroso in uso presso la Elen. L'impiego del sensore su ruota dentata d'ingranaggi con leghe di acciaio e profili diversi richiede certificazione e test da parte della Elen"

"The example of wheel and suitable gap it refers to a phonic profile of ferrous material used in Elen. To employ the sensor on cogwheel of gears with steel alloys and different profiles needs certification and test from Elen"

SENSOR FUNCTIONAL SCHEME



Connection diagrams



SPECIFICATIONS

CHARACTERISTICS	VALUE
Zero speed sensor	-
Precision:	$90^\circ \pm 20^\circ$
Power supply:	4,5 ÷ 30 Vdc
Output current:	max 350 mA
Frequency:	10 kHz
Output signal (freq.):	open collector
Housing material:	OT58 lathed
Tightening torque:	25 Nm
Operating temperature:	- 40 °C ÷ + 150 °C
Storage temperature:	- 60 °C ÷ + 150 °C
Overvoltage protection:	36 Vdc for 5'
Reverse polarity protection:	- 30 Vdc for 1h
Shortcircuit protection:	to ground for 5'
Overload protection:	420 mA for 5'
Degree of protection:	IP67; ref. IEC 60529)
Vibrations resistance:	1 mm/100Hz (~8g); ref. EN 60068-2-6
EMC compatibility:	BCI CLASS "A" 100mA; 1-400 MHz; ref. ISO 11452-4 (2005)
Resistance to corrosive environments:	yes; ref. EN 60068-2-11

Output pins are protected against 2000V electrostatic discharge rif. according to hbm: mil-std-883; method 3015