

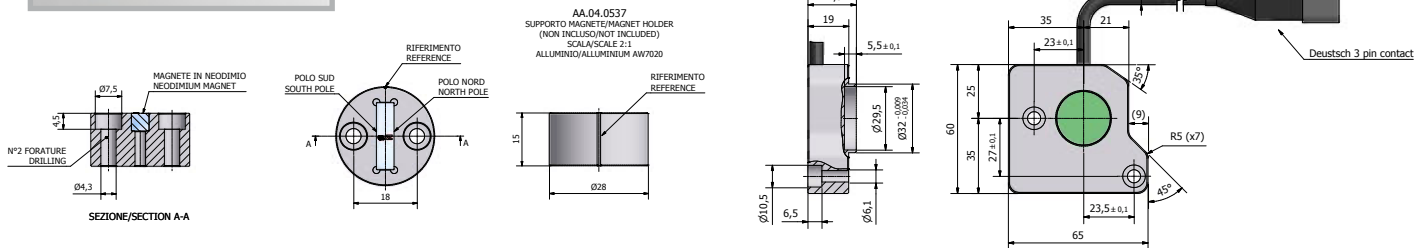
Sensori angolari ad effetto Hall senza contatto

Hall effect contactless angle sensors



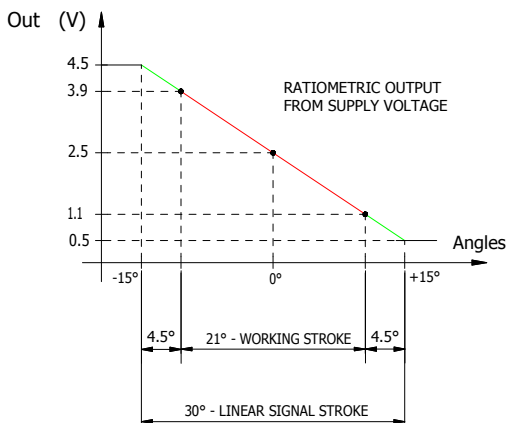
- Realizzazioni speciali su disegno custom per dimensioni parte fissa e mobile (per supporto magnete)
- Range angolare customizzabile
- Versioni a 5 Vdc raziometriche o a range esteso 10-30 Vdc
- Impiegabili nei settori automotive, agricolo, movimento terra, industriale, ferroviario, nautico.
- Special releases on custom design about mechanical dimensions of both the fixed and moving part (for magnet positioning)
- Customizable angular range
- 5Vdc ratiometric or extended supply voltage (10-30Vdc) versions
- Applicable in automotive, agricultural, earth-moving machinery, industrial, railway and nautic fields

DIMENSIONS

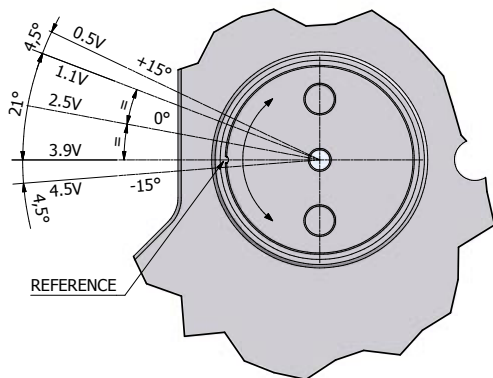
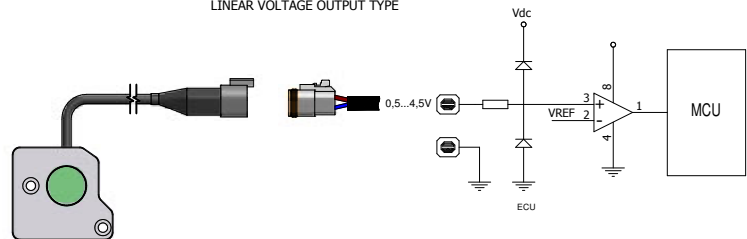


APPLICATIONS

Output signal



ECU TYPICAL CONNECTION
LINEAR VOLTAGE OUTPUT TYPE



SPECIFICATIONS

CHARACTERISTICS	VALUE
Principle of operation:	effetto Hall
Power supply:	4,5 ÷ 5,5 V
Linear output:	0,5 ÷ 4,5 V (2,5 V @ 0°) with 5 V power supply
Maximum output current:	1 mA
Maximum load recommended output:	10 Kohm
Resolution over 360°:	< 0,5°
Precision:	± 1° (± 15°; ± 30°) ± 2 (± 45°; ± 60°)
Reproducibility:	0,1°
Hysteresis:	± 0.05 %
Relative linearity:	± 0,6 %
Offset voltage:	30 mV
Offset voltage thermal drift:	- 0.8 mV/°C
Current sink (no load):	5 mA
Capacitive load:	100 nF
Initial position tolerance:	± 30 mV
Final position tolerance:	± 30 mV
Housing material:	antioxidant treatment aluminium
shaft material:	stainless steel
Operating temperature:	- 40 °C ÷ + 105 °C
Storage temperature:	- 40 °C ÷ + 115 °C
Overvoltage protection:	6,6 V for 5'
Shortcircuit protection:	to ground and to Vdc for 5'
Overload protection:	1,2 mA per 5'
Reverse polarity protection:	- 5,5 Vdc for 1h
Transient voltage protected output:	yes; ref. ISO 7637
Degree of protection:	IP67; ref. IEC 60529
Vibrations resistance:	1mm/100Hz (~8g); ref. EN 60068-2-6
EMC compatibility:	BCI CLASS "C" 100mA; 1-400 MHz; ref. ISO 11452-4 (2005)

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