

Sensori angolari ad effetto Hall con case tondo (2)

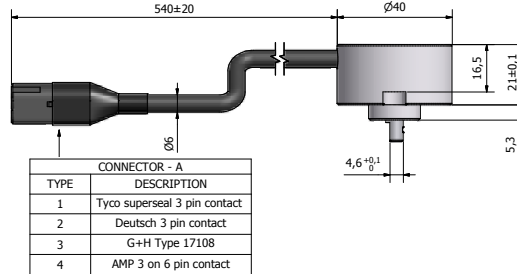
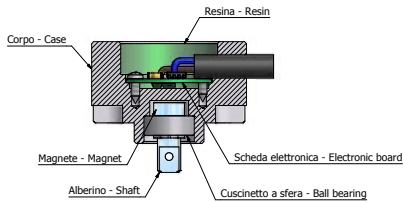
Hall effect angle sensors with round case (2)



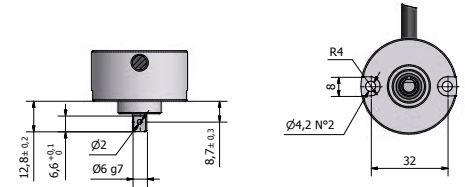
- Case di altezza 21 mm con fori di fissaggio
- Range angolare da $\pm 15^\circ$ a $\pm 60^\circ$
- Versioni a 5 Vdc raziometriche o a range esteso 10-30 Vdc
- Impiegabili nei settori automotive, agricolo, movimento terra, industriale, ferroviario, nautico.

- 21 mm high case with fixing holes
- Angular range from $\pm 15^\circ$ to $\pm 60^\circ$
- 5 Vdc ratiometric or extended supply voltage 10-30 Vdc versions
- Applicable in automotive, agricultural, earth-moving machinery, industrial, railway and nautic fields.

DIMENSIONS

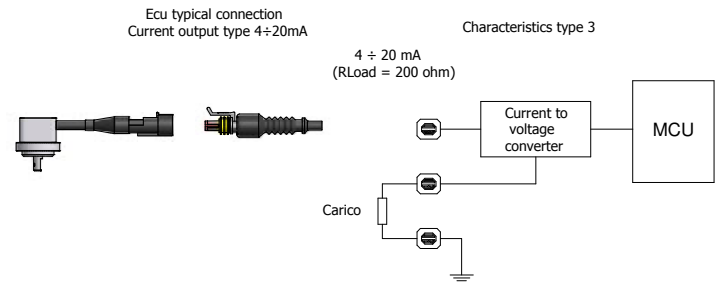
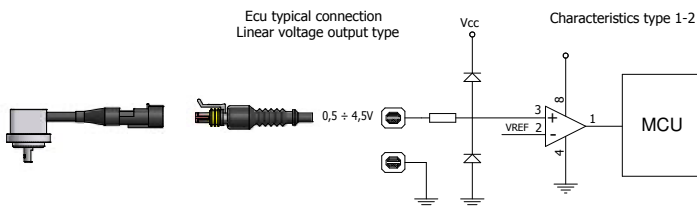


| CONNECTOR - A | |
|---------------|------------------------------|
| TYPE | DESCRIPTION |
| 1 | Tyco superseal 3 pin contact |
| 2 | Deutsch 3 pin contact |
| 3 | G+H Type 17108 |
| 4 | AMP 3 on 6 pin contact |

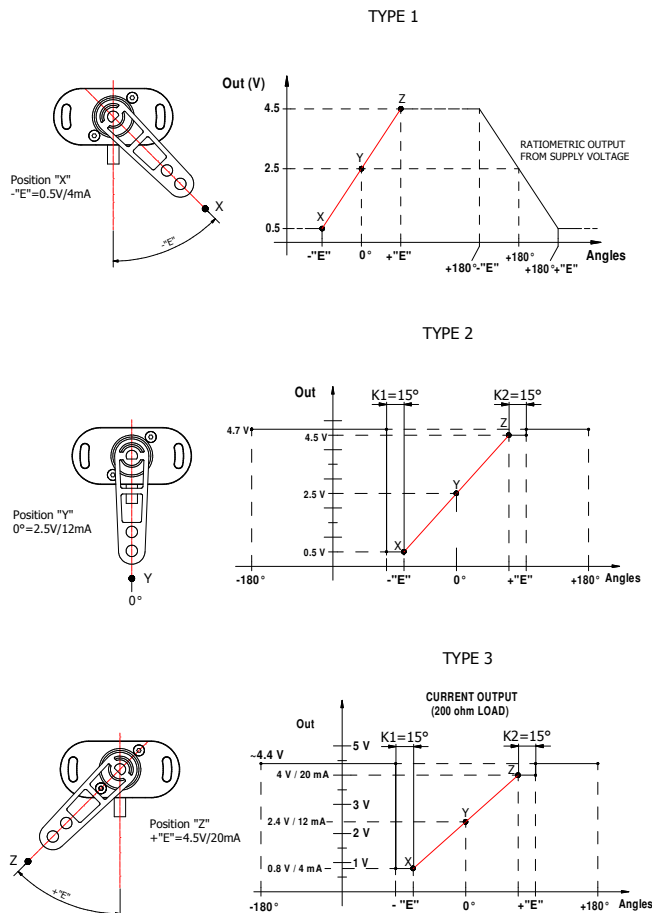


APPLICATIONS

Connection diagrams



Output signal



SPECIFICATIONS

| CHARACTERISTICS | TYPE 1 | TYPE 2 | TYPE 3 |
|---|---|-----------------|------------------------|
| Principle of operation: | | Hall Effect | |
| Power supply: | 4,5 ÷ 5,5 V | 10 ÷ 30 V | |
| Linear output: | 0,5 ÷ 4,5 V (2,5 V @ 0°) | | 4 ÷ 20 mA (12 mA @ 0°) |
| Maximum output current: | 1 mA | 22,5 mA | |
| Maximum load recommended output: | 10 kOhm | 200 Ohm | 167 Ohm |
| Resolution over 360°: | < 0,5° | | |
| Precision: | $\pm 1^\circ (\pm 15^\circ; \pm 30^\circ) \pm 2 (\pm 45^\circ; \pm 60^\circ)$ | | |
| Reproducibility: | 0,1° | | |
| Hysteresis: | $\pm 0,05 \%$ | | |
| Relative linearity: | $\pm 0,6 \%$ | | |
| Offset voltage: | 30 mV | | |
| Offset voltage thermal drift: | - 0,8 mV/°C | | |
| Current sink (no load): | 5 mA | 10,5 mA | |
| Capacitive load: | 100 nF | | |
| Initial position tolerance: | ± 30 mV | | $\pm 0,15$ mV |
| Final position tolerance: | ± 30 mV | | $\pm 0,15$ 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 Vcc for 5' | 36 Vcc for 5' | |
| Shortcircuit protection: | to ground and to Vdc for 5' | | |
| Overload protection: | 1,2 mA for 5' | 27 mA for 5' | |
| Reverse polarity protection: | - 5,5 Vcc for 1h | - 30 Vcc for 1h | - 30 Vcc 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 rif. according to hbm : mil-std-883; method 3015. | | | |