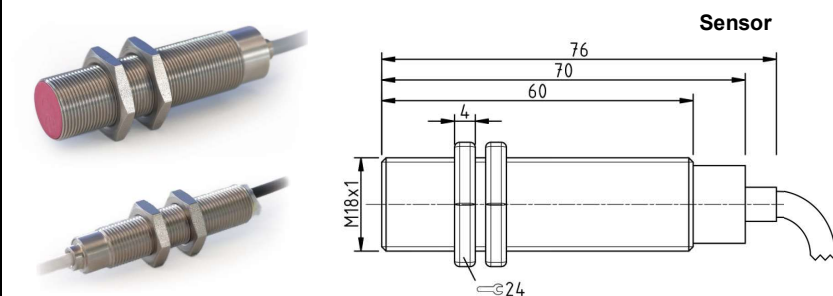


HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

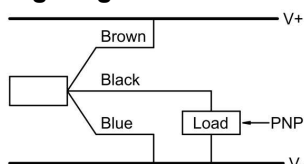
Sensing Distance: 5mm - Housing Diameter: M18

| | | | |
|---|-------------------|-------------------------|-----------------------------------|
|  <p>Dimensions are in mm.</p> | | Technical Data: | External amplifier version |
| Part Numbers: | | Mounting: | Shielded |
| PNP/NO | IN5-18HTPS-250EXT | Sensing range in mm: | 5 |
| PNP/NC | IN5-18HTPO-250EXT | Supply voltage: | 10-35 VDC |
| NPN/NO | IN5-18HTNS-250EXT | Output function: | N.O. or N.C. |
| NPN/NC | IN5-18HTNO-250EXT | Load current: | 120 mA |
| | | Switching Frequency: | 400 Hz |
| | | Short circuit limit: | 200 mA |
| | | Cable: | Sensor: PTFE, Amplifier: PUR |
| | | Sensor operating temp.: | -13 to 482 °F (-25 to 250 °C) |
| | | Target size: | 18 x 18 x 1 mm ST37 |
| | | Hysteresis: | 2 to 20 % |
| | | LED: | Yes (on amplifier) |
| | | Options: | Cable length, Cable type |

These sensors share the following specifications:

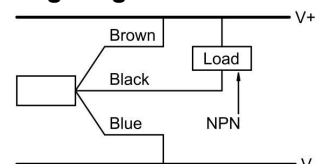
| | |
|--|--|
| <ul style="list-style-type: none"> * The EMC (Electromagnetic Compatibility) resistance of the switches: IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV * Sensing range can vary +/-10 %. * Voltage spikes (300 V for 1 ms, 10 Hz) * All standard cables are 3 x 0.25 mm² and a length of 2 m +/-5 %. * Output capacity is 100 nF. * Storage temperature -13 °F to +176 °F (-25 °C to 80 °C). * Relative humidity is 100 %. * Vibration resistant to 1 mm amplitude at 55 Hz. | <ul style="list-style-type: none"> * Shock resistant to 10 g for a period of 11 ms. * Degree of protection (DIN 40 050) is IP67 (higher IP options may be available). * Reverse polarity protection is incorporated on the supply voltage. * Load resistor of 100 kOhm is incorporated. * Leakage current is 4 mA at 24 V supply voltage. * Residual ripple is 15 %. * Voltage drop is approximately 2 V when sensor is on. * Sensing face material is: LPC-Vectra. * Temperature specification for external amplifier: +14 to +158°F (-10 °C to +70 °C). |
|--|--|

Wiring Diagram PNP NO/NC



Special types and
silicone free
versions are
available
upon request

Wiring Diagram NPN NO/NC



Design and technical details subject to change