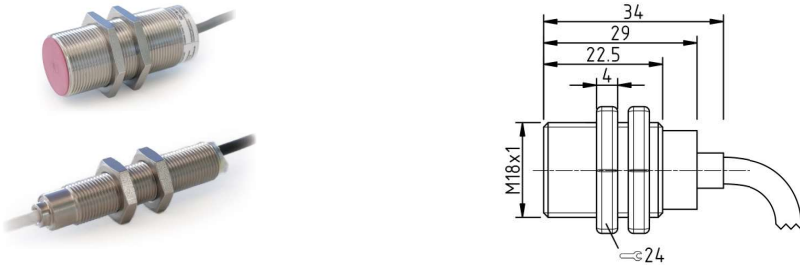


HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

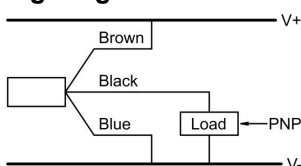
Sensing Distance: **5mm** - Housing Diameter: **M18**

 <p>Dimensions are in mm.</p>	<p>Technical Data:</p> <p>Mounting: Shielded</p> <p>Sensing range in mm: 5</p> <p>Supply voltage: 10-35 VDC</p> <p>Output function: N.O. or N.C.</p> <p>Load current: 120 mA</p> <p>Switching Frequency: 400 Hz</p> <p>Short circuit limit: 200 mA</p> <p>Cable: Sensor: PTFE, Amplifier: PUR</p> <p>Sensor operating temp.: -13 to 482 °F (-25 to 250 °C)</p> <p>Target size: 18 x 18 x 1 mm ST37</p> <p>Hysteresis: 2 to 20 %</p> <p>LED: Yes (on amplifier)</p> <p>Options: Cable length, Cable type</p>	<p>External amplifier version</p>							
			<p>Part Numbers:</p> <table border="1"> <tr> <td>PNP/NO</td> <td>IN5-1835HTPS-250EXT</td> </tr> <tr> <td>PNP/NC</td> <td>IN5-1835HTPO-250EXT</td> </tr> <tr> <td>NPN/NO</td> <td>IN5-1835HTNS-250EXT</td> </tr> <tr> <td>NPN/NC</td> <td>IN5-1835HTNO-250EXT</td> </tr> </table>	PNP/NO	IN5-1835HTPS-250EXT	PNP/NC	IN5-1835HTPO-250EXT	NPN/NO	IN5-1835HTNS-250EXT
PNP/NO	IN5-1835HTPS-250EXT								
PNP/NC	IN5-1835HTPO-250EXT								
NPN/NO	IN5-1835HTNS-250EXT								
NPN/NC	IN5-1835HTNO-250EXT								

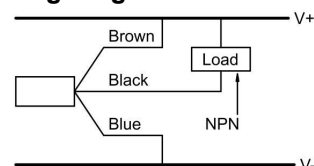
These sensors share the following specifications:

- | | | | | | |
|--|-----------------------|-----------------------|-----------------------|------------------|---|
| <ul style="list-style-type: none"> * The EMC (Electromagnetic Compatibility) resistance of the switches: <table border="0"> <tr> <td>IEC 61000-4-2 Level 2</td> <td>IEC 61000-4-4 Level 2</td> </tr> <tr> <td>IEC 61000-4-3 Level 2</td> <td>IEC 60255-5 1 kV</td> </tr> </table> * 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. | IEC 61000-4-2 Level 2 | IEC 61000-4-4 Level 2 | IEC 61000-4-3 Level 2 | IEC 60255-5 1 kV | <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). |
| IEC 61000-4-2 Level 2 | IEC 61000-4-4 Level 2 | | | | |
| IEC 61000-4-3 Level 2 | IEC 60255-5 1 kV | | | | |

Wiring Diagram PNP NO/NC



Wiring Diagram NPN NO/NC



Special types and silicone free versions are available upon request

Design and technical details subject to change