


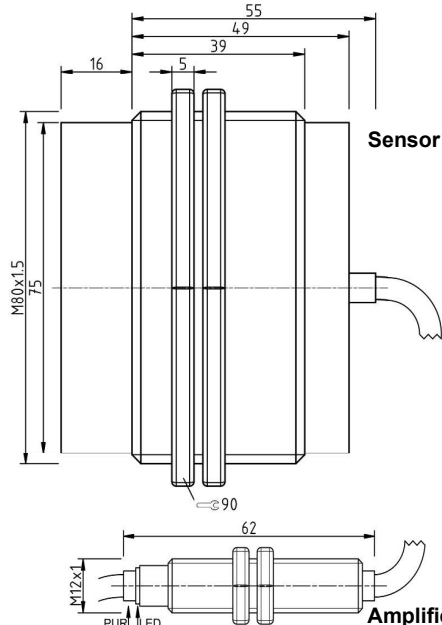
# HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: **50 mm** - Housing Diameter: **M80**



Dimensions are in mm.

Part Numbers:	
PNP/NO	IN50-80HTPS-200EXT
PNP/NC	IN50-80HTPO-200EXT
NPN/NO	IN50-80HTNS-200EXT
NPN/NC	IN50-80HTNO-200EXT



**Sensor**

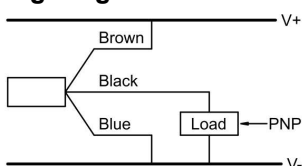
**Amplifier**

Technical Data:	External amplifier version
Mounting:	Unshielded
Sensing range in mm:	50
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	50 Hz
Short circuit limit:	200 mA
Cable:	Sensor: PTFE, Amplifier: PUR
Operating temperature:	-13 to 392 °F (-25 to 200 °C)
Target size:	50 x 50 x 1 mm ST37
Hysteresis:	3 to 20 %
LED:	Yes (on amplifier)
Options:	Cable length, Cable type

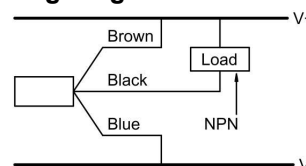
**These sensors share the following specifications:**

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