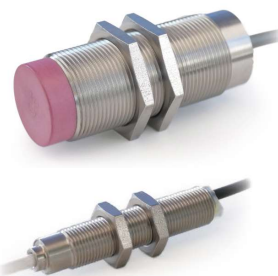
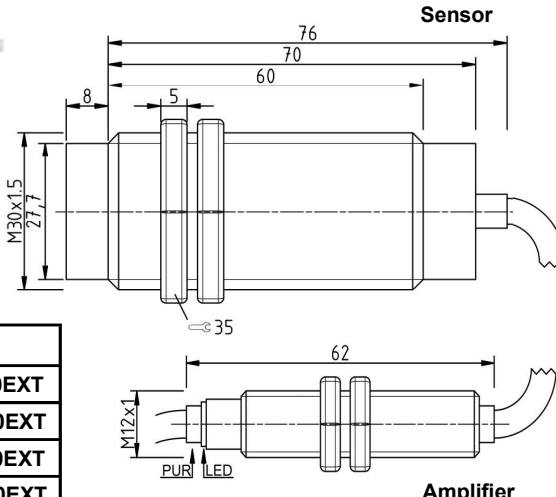


# HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

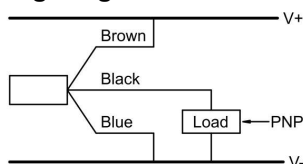
## Sensing Distance: 15mm - Housing Diameter: M30

				<table><tr><th>Technical Data:</th><th>External amplifier version</th></tr><tr><td>Mounting:</td><td>Unshielded</td></tr><tr><td>Sensing range in mm:</td><td>15</td></tr><tr><td>Supply voltage:</td><td>10-35 VDC</td></tr><tr><td>Output function:</td><td>N.O. or N.C.</td></tr><tr><td>Load current:</td><td>120 mA</td></tr><tr><td>Switching Frequency:</td><td>200 Hz</td></tr><tr><td>Short circuit limit:</td><td>200 mA</td></tr><tr><td>Cable:</td><td>Sensor: PTFE, Amplifier: PUR</td></tr><tr><td>Sensor operating temp.:</td><td>-13 to 446 °F (-25 to 230 °C)</td></tr><tr><td>Target size:</td><td>30 x 30 x 1 mm ST37</td></tr><tr><td>Hysteresis:</td><td>3 to 15 %</td></tr><tr><td>LED:</td><td>Yes (on amplifier)</td></tr><tr><td>Options:</td><td>Cable length, Cable type</td></tr></table>	Technical Data:	External amplifier version	Mounting:	Unshielded	Sensing range in mm:	15	Supply voltage:	10-35 VDC	Output function:	N.O. or N.C.	Load current:	120 mA	Switching Frequency:	200 Hz	Short circuit limit:	200 mA	Cable:	Sensor: PTFE, Amplifier: PUR	Sensor operating temp.:	-13 to 446 °F (-25 to 230 °C)	Target size:	30 x 30 x 1 mm ST37	Hysteresis:	3 to 15 %	LED:	Yes (on amplifier)	Options:	Cable length, Cable type
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Dimensions are in mm.																																
<b>Part Numbers:</b>																																
PNP/NO	IN15-30HTPS-230EXT																															
PNP/NC	IN15-30HTPO-230EXT																															
NPN/NO	IN15-30HTNS-230EXT																															
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### This sensor has the following specifications:

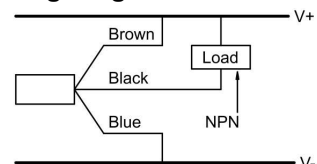
<ul style="list-style-type: none"> <li>* The EMC (Electromagnetic Compatibility) resistance of the switches: IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV</li> <li>* Sensing range can vary +/-10 %.</li> <li>* Voltage spikes (300 V for 1 ms, 10 Hz)</li> <li>* All standard 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 10 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 aproximately 2 V when sensor is on.</li> <li>* Sensing face material is: LPC-Vectra.</li> <li>* Temperature specification for external amplifier: +14 to +158°F (-10 °C to 70 °C).</li> </ul>
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#### 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