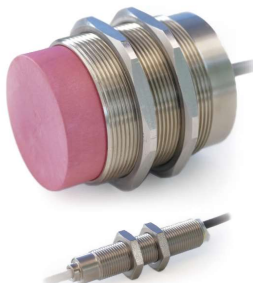
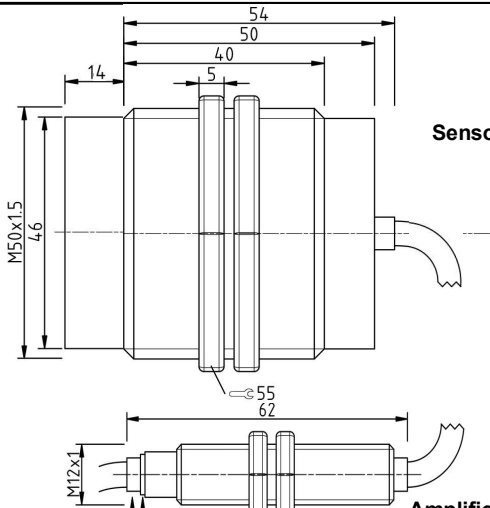


# HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

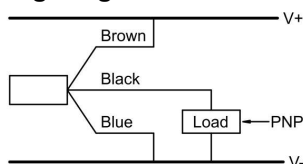
## Sensing Distance: 25 mm - Housing Diameter: M50

|  |                    |  |                         |                                   |
|--|--------------------|--|-------------------------|-----------------------------------|
|  |                    |  | <b>Technical Data:</b>  | <b>External amplifier version</b> |
| Dimensions are in mm.  |                    |  |                         |                                   |
| <b>Part Numbers:</b>   |                    |  | Mounting:               | Unshielded                        |
| PNP/NO   | IN25-50HTPS-230EXT | <b>Sensor</b>  | Sensing range in mm:    | 25                                |
| PNP/NC   | IN25-50HTPO-230EXT |  | Supply voltage:         | 10-35 VDC                         |
| NPN/NO   | IN25-50HTNS-230EXT | <b>Amplifier</b>   | Output function:        | N.O. or N.C.                      |
| NPN/NC   | IN25-50HTNO-230EXT |  | Load current:           | 120 mA                            |
|  |                    |  | Switching Frequency:    | 50 Hz                             |
|  |                    |  | Short circuit limit:    | 200 mA                            |
|  |                    |  | Cable:                  | Sensor: PTFE, Amplifier: PUR      |
|  |                    |  | Sensor operating temp.: | -13 to 446 °F (-25 to 230 °C)     |
|  |                    |  | Target size:            | 50 x 50 x 1 mm ST37               |
|  |                    |  | Hysteresis:             | 3 to 20 %                         |
|  |                    |  | LED:                    | Yes (on amplifier)                |
|  |                    |  | Options:                | Cable length, Cable type          |

### This sensor has the following specifications:

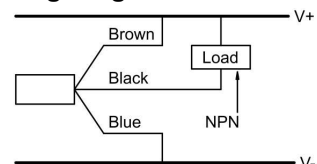
|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>* The EMC (Electromagnetic Compatibility) resistance of the switches:<br/>IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV</li> <li>* Sensing range can vary +/-10 %.</li> <li>* Voltage spikes (300 V for 1 ms, 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 aproximately 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> |
|---|---|

#### 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