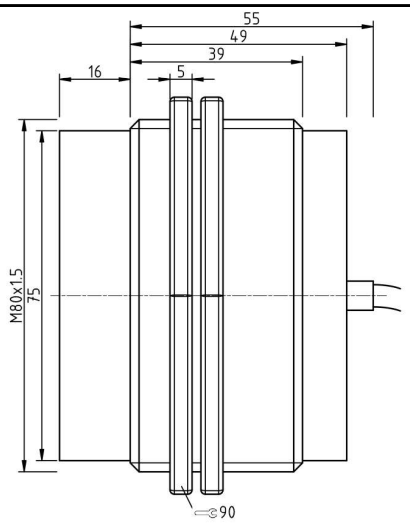
HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

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



Dimensions are in mm.

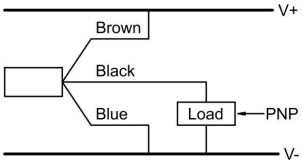
Part Numbers:	
PNP/NO	**IN50-80HTPS-160**
PNP/NC	**IN50-80HTPO-160**
NPN/NO	**IN50-80HTNS-160**
NPN/NC	**IN50-80HTNO-160**

Technical Data:	
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:	Silicone
Operating temperature:	-13 to 320 °F (-25 to 160 °C)
Target size:	80 x 80 x 1 mm ST37
Hysteresis:	3 to 20 %
LED:	No
Options:	Cable length, Cable type, Connector

These sensors share the following specifications:

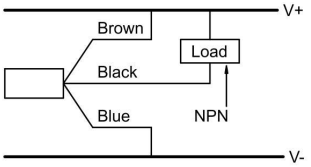
* The EMC (Electromagnetic Compatibility) resistance of the switches:
  IEC 61000-4-2 Level 2 — IEC 61000-4-4 Level 2
  IEC 61000-4-3 Level 2 — IEC 60255-5 1 kV
* Sensing range can vary +/-10 %.
* Voltage spikes (300 V for 1 ms, 10 Hz)
* All standard cables are 3 x 0.25 mm^2 and a length of 2 m +/-5 %.
* 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.
* Shock resistant to 5 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 aproximently 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