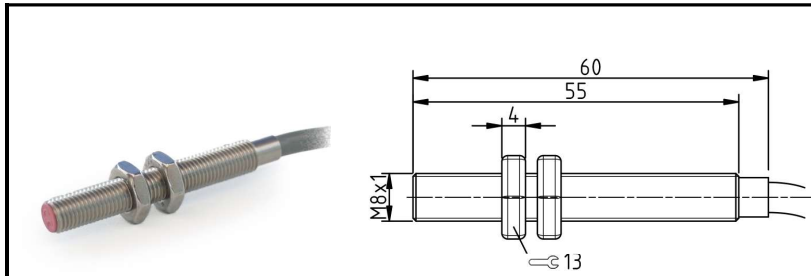


HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: **2 mm** - Housing Diameter: **M8**



Dimensions are in mm.

Part Numbers:

PNP/NO	IN2-8HTPS-140
NPN/NO	IN2-8HTNS-140

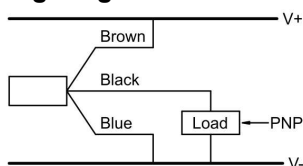
Technical Data:

Mounting:	Shielded
Sensing range in mm:	2
Supply voltage:	10-35 VDC
Output function:	N.O.
Load current:	120 mA up to 266 °F (130 °C), 70 mA up to 284 °F (140 °C)
Switching Frequency:	800 Hz
Short circuit limit:	400 mA
Cable:	Silicone
Operating temperature:	-13 to 284 °F (-25 to 140 °C)
Target size:	8 x 8 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	No
Options:	Cable length, Cable type

This sensor has the following specifications:

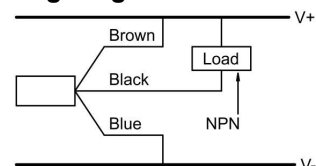
* The EMC (Electromagnetic Compatibility) resistance of the switches: IEC 61000-4-2 Level 2 IEC 61000-4-3 Level 2 IEC 61000-4-4 Level 2 IEC 60255-5 1 kV	* Vibration resistant to 1 mm amplitude at 55 Hz. * Shock resistant to 10 g for a period of 11 ms. * Degree of protection (DIN 40 050) is IP67 (higher 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.
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Wiring Diagram PNP NO



Special types and
silicone free
versions are
available
upon request

Wiring Diagram NPN NO



Design and technical details subject to change

Locon Sensor Systems, Inc.

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

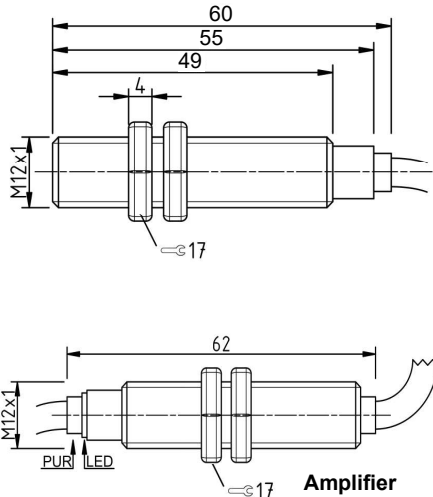
Sensing Distance: **2 mm** - Housing Diameter: **M12**





Dimensions are in mm.

Part Numbers:	
PNP/NO	IN2-12HTPS-200EXT
PNP/NC	IN2-12HTPO-200EXT
NPN/NO	IN2-12HTNS-200EXT
NPN/NC	IN2-12HTNO-200EXT

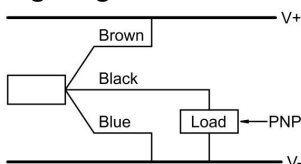


Technical Data:	
Mounting:	flush
Sensing range in mm:	2
Supply voltage:	10-36 VDC
Output function:	N.O. or N.C.
Load current:	200 mA
Switching Frequency:	500 Hz
Short circuit limit:	240 mA
Cable version:	Sensor: PTFE, Amplifier: PUR
Operating temperature:	-13 to 392 °F (-25 to 200 °C)
Target size:	50 x 50 x 1 mm ST37
Hysteresis:	3 to 20 %
LED:	Yes (on amplifier)
Options:	Cable length, Cable type

This sensor has the following specifications:

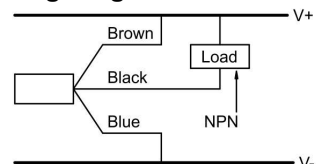
- | | |
|---|---|
| <ul style="list-style-type: none"> * The EMC (Electromagnetic Compatibility) resistance of the switches:
IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2
IEC 61000-4-3 Level 2 IEC 60255-5 1 kV * Sensing range can vary +/-10 %. * Voltage spikes (300 V for 1 ms, 10 Hz) * All standard cables are 3 x 0.25 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. | <ul style="list-style-type: none"> * 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 aproximately 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



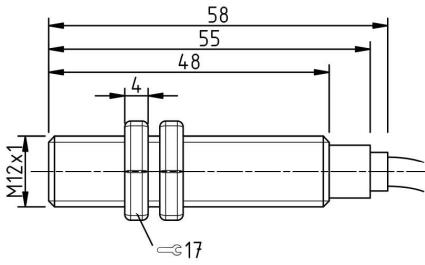
Design and technical details subject to change

Locon Sensor Systems, Inc.

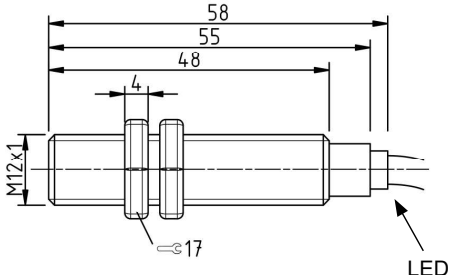
HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: 3mm - Housing Diameter: M12



  Dimensions are in mm.		Technical Data:	
		Mounting:	Shielded
		Sensing range in mm:	3
		Supply voltage:	10-35 VDC
		Output function:	N.O. or N.C.
		Load current:	120 mA up to 266 °F (130 °C), 70 mA up to 302 °F (150 °C)
		Switching Frequency:	500 Hz
		Short circuit limit:	400 mA
		Cable:	Silicone
		Operating temperature:	-13 to 302 °F (-25 to 150 °C)
		Target size:	12 x 12 x 1 mm ST37
		Hysteresis:	3 to 15 %
		LED:	No
		Options:	Cable length, Cable type

Part Numbers:	
PNP/NO	IN3-12HTPS-150
PNP/NC	IN3-12HTPO-150
NPN/NO	IN3-12HTNS-150
NPN/NC	IN3-12HTNO-150

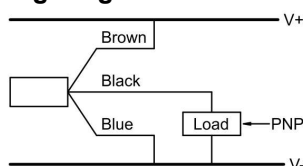
  Dimensions are in mm.		Technical Data:	with LED
		Mounting:	Shielded
		Sensing range in mm:	3
		Supply voltage:	10-35 VDC
		Output function:	N.O. or N.C.
		Load current:	120 mA
		Switching Frequency:	500 Hz
		Short circuit limit:	400 mA
		Cable:	PTFE
		Operating temperature:	-13 to 266 °F (-25 to 130 °C)
		Target size:	12 x 12 x 1 mm ST37
		Hysteresis:	3 to 15 %
		LED:	Yes
		Options:	Cable length, Cable type

Part Numbers:	
PNP/NO	IN3-12HTPS/L-130
PNP/NC	IN3-12HTPO/L-130
NPN/NO	IN3-12HTNS/L-130
NPN/NC	IN3-12HTNO/L-130

These sensors share the following specifications:

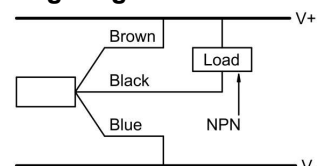
* The EMC (Electromagnetic Compatibility) resistance of the switches: IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV * Sensing range can vary +/-10 %. * Voltage spikes (300 V for 1 ms, 10 Hz) * All standard cables are 3 x 0.25 mm² and a length of 2 m +/-5 %. * Output 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. * 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.
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Wiring Diagram PNP NO/NC



Special types and
silicone free
versions are
available
upon request

Wiring Diagram NPN NO/NC



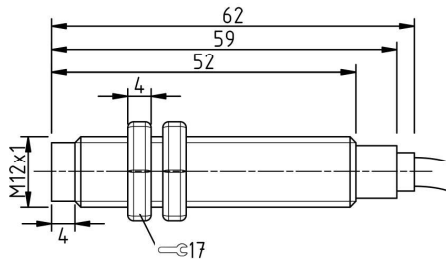
Design and technical details subject to change

Locon Sensor Systems, Inc.

Toll-Free: 800-356-2661 · Phone: 419-740-8445 · Fax: 216-359-0077 · E-mail: sales@locon.net · Website: www.locon.net

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: **4mm** - Housing Diameter: **M12**



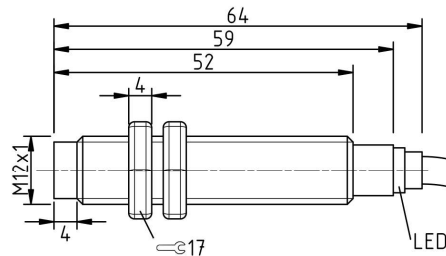
Dimensions are in mm.

Part Numbers:

PNP/NO	IN4-12HTPS-150
PNP/NC	IN4-12HTPO-150
NPN/NO	IN4-12HTNS-150
NPN/NC	IN4-12HTNO-150

Technical Data:

Mounting:	Unshielded
Sensing range in mm:	4
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA up to 266 °F (130 °C), 70 mA up to 302 °F (150 °C)
Switching Frequency:	500 Hz
Short circuit limit:	400 mA
Cable:	Silicone
Operating temperature:	-13 to 356 °F (-25 to 150 °C)
Target size:	12 x 12 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	No
Options:	Cable length, Cable type



Dimensions are in mm.

Part Numbers:

PNP/NO	IN4-12HTPS/L-130
PNP/NC	IN4-12HTPO/L-130
NPN/NO	IN4-12HTNS/L-130
NPN/NC	IN4-12HTNO/L-130

Technical Data:

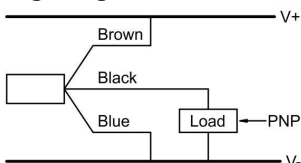
with LED

Mounting:	Unshielded
Sensing range in mm:	4
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	500 Hz
Short circuit limit:	400 mA
Cable:	PTFE
Operating temperature:	-13 to 266 °F (-25 to 130 °C)
Target size:	12 x 12 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	Yes
Options:	Cable length, Cable type

These sensors share the following specifications:

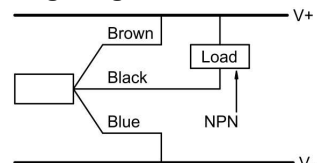
- | | |
|--|--|
| <p>* The EMC (Electromagnetic Compatibility) resistance of the switches:
 IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2
 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV</p> <p>* Sensing range can vary +/-10 %.</p> <p>* Voltage spikes (300 V for 1 ms, 10 Hz)</p> <p>* All standard cables are 3 x 0.25 mm² and a length of 2 m +/- 5 %.</p> <p>* Output capacity is 100 nF.</p> <p>* Storage temperature -13 °F to + 176 °F (-25 °C to 80 °C).</p> <p>* Relative humidity is 100 %.</p> | <p>* Vibration resistant to 1 mm amplitude at 55 Hz.</p> <p>* Shock resistant to 10 g for a period of 11 ms.</p> <p>* Degree of protection (DIN 40 050) is IP67 (higher IP options may be available).</p> <p>* Reverse polarity protection is incorporated on the supply voltage.</p> <p>* Load resistor of 100 kOhm is incorporated.</p> <p>* Leakage current is 4 mA at 24 V supply voltage.</p> <p>* Residual ripple is 15 %.</p> <p>* Voltage drop is aproximently 2 V when sensor is on.</p> <p>* Sensing face material is: LPC-Vectra.</p> |
|--|--|

Wiring Diagram PNP NO/NC



**Special types and
silicone free
versions are
available
upon request**

Wiring Diagram NPN NO/NC

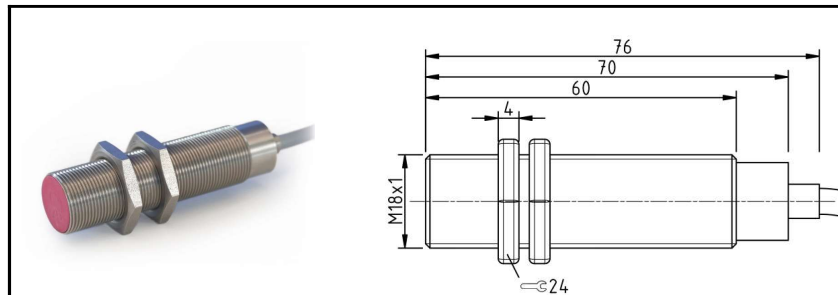


Design and technical details subject to change

Locon Sensor Systems, Inc.

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: 5mm - Housing Diameter: M18



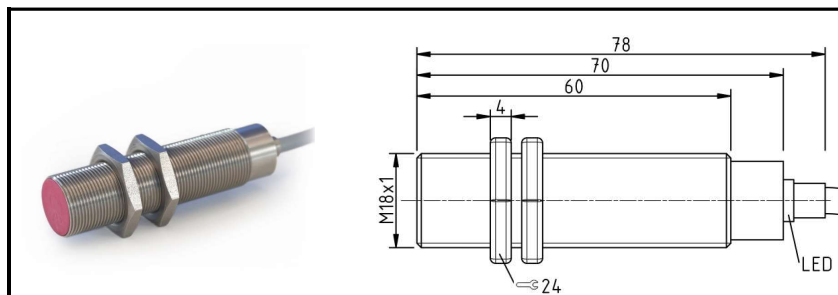
Dimensions are in mm.

Part Numbers:

PNP/NO	IN5-18HTPS-180
PNP/NC	IN5-18HTPO-180
NPN/NO	IN5-18HTNS-180
NPN/NC	IN5-18HTNO-180

Technical Data:

Mounting:	Shielded
Sensing range in mm:	5
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	400 Hz
Short circuit limit:	200 mA
Cable:	Silicone
Operating temperature:	-40 to 356 °F (-40 to 180 °C)
Target size:	18 x 18 x 1 mm ST37
Hysteresis:	2 to 20 %
LED:	No
Options:	Cable length, Cable type



Dimensions are in mm.

Part Numbers:

PNP/NO	IN5-18HTPS/L-130
PNP/NC	IN5-18HTPO/L-130
NPN/NO	IN5-18HTNS/L-130
NPN/NC	IN5-18HTNO/L-130

Technical Data:

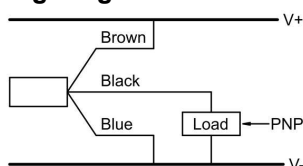
with LED

Mounting:	Shielded
Sensing range in mm:	5
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	400 Hz
Short circuit limit:	200 mA
Cable:	Silicone
Operating temperature:	-13 to 266 °F (-25 to 130 °C)
Target size:	18 x 18 x 1 mm ST37
Hysteresis:	2 to 20 %
LED:	Yes
Options:	Cable length, Cable type

These sensors share the following specifications:

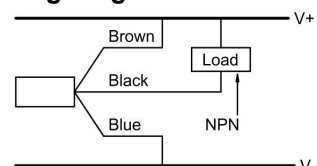
* The EMC (Electromagnetic Compatibility) resistance of the switches: IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV * Sensing range can vary +/-10 %. * Voltage spikes (300 V for 1 ms, 10 Hz) * All standard cables are 3 x 0.25 mm² and a length of 2 m +/-5 %. * Output 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. * 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.
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Wiring Diagram PNP NO/NC



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO/NC



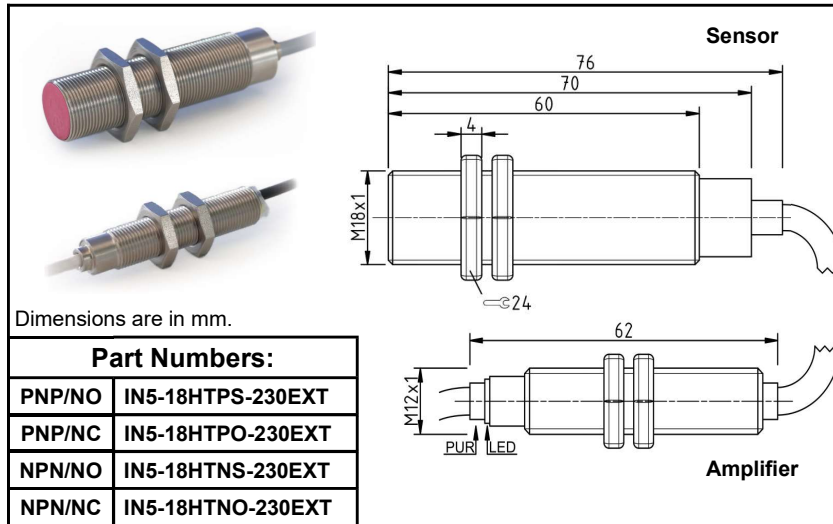
Design and technical details subject to change

Locon Sensor Systems, Inc.

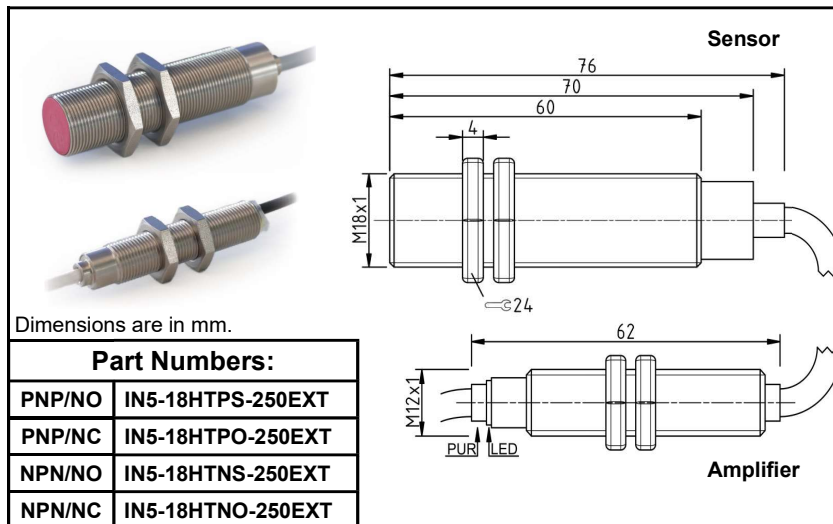
Toll-Free: 800-356-2661 · Phone: 419-740-8445 · Fax: 216-359-0077 · E-mail: sales@locon.net · Website: www.locon.net

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

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



Technical Data:	External amplifier version
Mounting:	Shielded
Sensing range in mm:	5
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	400 Hz
Short circuit limit:	200 mA
Cable:	Sensor: PTFE, Amplifier: PUR
Sensor operating temp.:	-13 to 446 °F (-25 to 230 °C)
Target size:	18 x 18 x 1 mm ST37
Hysteresis:	2 to 20 %
LED:	Yes (on amplifier)
Options:	Cable length, Cable type



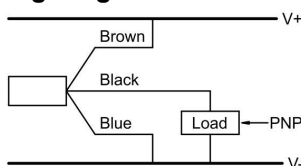
Technical Data:	External amplifier version
Mounting:	Shielded
Sensing range in mm:	5
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	400 Hz
Short circuit limit:	200 mA
Cable:	Sensor: PTFE, Amplifier: PUR
Sensor operating temp.:	-13 to 482 °F (-25 to 250 °C)
Target size:	18 x 18 x 1 mm ST37
Hysteresis:	2 to 20 %
LED:	Yes (on amplifier)
Options:	Cable length, Cable type

These sensors share the following specifications:

- * The EMC (Electromagnetic Compatibility) resistance of the switches:
 - IEC 61000-4-2 Level 2
 - IEC 61000-4-3 Level 2
 - IEC 61000-4-4 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 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.

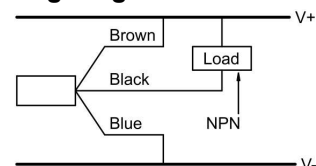
- * Shock resistant to 10 g for a period of 11 ms.
- * Degree of protection (DIN 40 050) is IP67 (higher IP options may be available).
- * Reverse polarity protection is incorporated on the supply voltage.
- * Load resistor of 100 kOhm is incorporated.
- * Leakage current is 4 mA at 24 V supply voltage.
- * 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).

Wiring Diagram PNP NO/NC



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO/NC



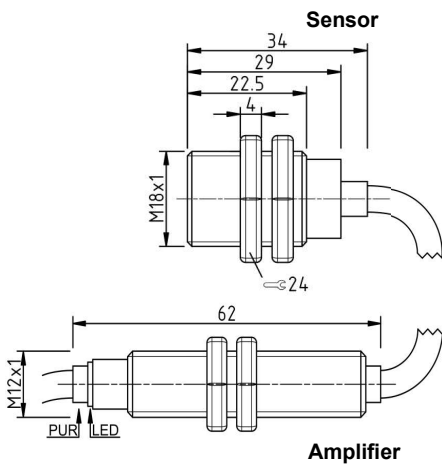
Design and technical details subject to change

Locon Sensor Systems, Inc.

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

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



				<table><tr><th>Technical Data:</th><th>External amplifier version</th></tr><tr><td>Mounting:</td><td>Shielded</td></tr><tr><td>Sensing range in mm:</td><td>5</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>400 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>18 x 18 x 1 mm ST37</td></tr><tr><td>Hysteresis:</td><td>2 to 20 %</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:	Shielded	Sensing range in mm:	5	Supply voltage:	10-35 VDC	Output function:	N.O. or N.C.	Load current:	120 mA	Switching Frequency:	400 Hz	Short circuit limit:	200 mA	Cable:	Sensor: PTFE, Amplifier: PUR	Sensor operating temp.:	-13 to 446 °F (-25 to 230 °C)	Target size:	18 x 18 x 1 mm ST37	Hysteresis:	2 to 20 %	LED:	Yes (on amplifier)	Options:	Cable length, Cable type
Technical Data:	External amplifier version																															
Mounting:	Shielded																															
Sensing range in mm:	5																															
Supply voltage:	10-35 VDC																															
Output function:	N.O. or N.C.																															
Load current:	120 mA																															
Switching Frequency:	400 Hz																															
Short circuit limit:	200 mA																															
Cable:	Sensor: PTFE, Amplifier: PUR																															
Sensor operating temp.:	-13 to 446 °F (-25 to 230 °C)																															
Target size:	18 x 18 x 1 mm ST37																															
Hysteresis:	2 to 20 %																															
LED:	Yes (on amplifier)																															
Options:	Cable length, Cable type																															
Dimensions are in mm.																																
Part Numbers:																																
PNP/NO	IN5-1835HTPS-230EXT																															
PNP/NC	IN5-1835HTPO-230EXT																															
NPN/NO	IN5-1835HTNS-230EXT																															
NPN/NC	IN5-1835HTNO-230EXT																															

Dimensions are in mm.

Part Numbers:

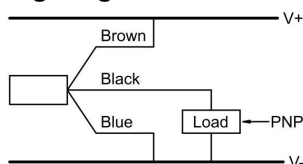
PNP/NO	IN5-1835HTPS-250EXT
PNP/NC	IN5-1835HTPO-250EXT
NPN/NO	IN5-1835HTNS-250EXT
NPN/NC	IN5-1835HTNO-250EXT

Technical Data:	External amplifier version
Mounting:	Shielded
Sensing range in mm:	5
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	400 Hz
Short circuit limit:	200 mA
Cable:	Sensor: PTFE, Amplifier: PUR
Sensor operating temp.:	-13 to 482 °F (-25 to 250 °C)
Target size:	18 x 18 x 1 mm ST37
Hysteresis:	2 to 20 %
LED:	Yes (on amplifier)
Options:	Cable length, Cable type

These sensors share the following specifications:

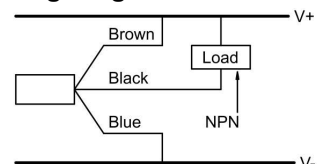
- | | |
|--|---|
| <ul style="list-style-type: none"> * The EMC (Electromagnetic Compatibility) resistance of the switches:
IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2
IEC 61000-4-3 Level 2 IEC 60255-5 1 kV * Sensing range can vary +/-10 %. * Voltage spikes (300 V for 1 ms, 10 Hz) * All standard cables are 3 x 0.25 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. | <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). |
|--|---|

Wiring Diagram PNP NO/NC



Special types and
silicone free
versions are
available
upon request

Wiring Diagram NPN NO/NC



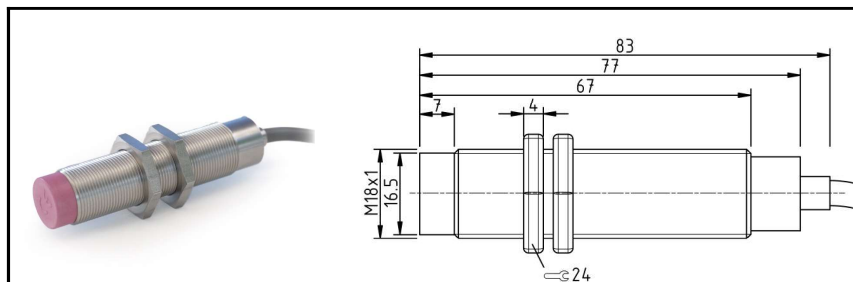
Design and technical details subject to change

Locon Sensor Systems, Inc.

Toll-Free: 800-356-2661 · Phone: 419-740-8445 · Fax: 216-359-0077 · E-mail: sales@locon.net · Website: www.locon.net

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: **8mm** - Housing Diameter: **M18**



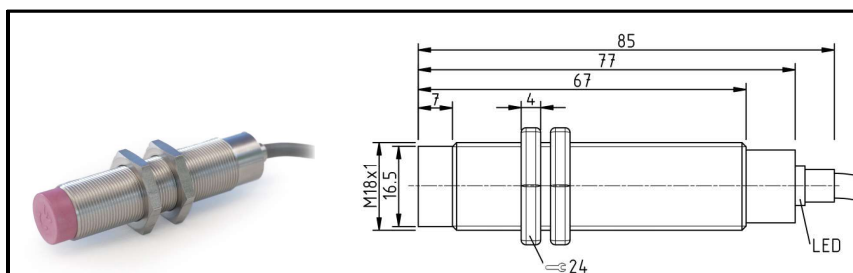
Dimensions are in mm.

Part Numbers:

PNP/NO	IN8-18HTPS-180
PNP/NC	IN8-18HTPO-180
NPN/NO	IN8-18HTNS-180
NPN/NC	IN8-18HTNO-180

Technical Data:

Mounting:	Unshielded
Sensing range in mm:	8
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	400 Hz
Short circuit limit:	200 mA
Cable:	Silicone
Operating temperature:	-13 to 356 °F (-25 to 180 °C)
Target size:	18 x 18 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	No
Options:	Cable length, Cable type



Dimensions are in mm.

Part Numbers:

PNP/NO	IN8-18HTPS/L-130
PNP/NC	IN8-18HTPO/L-130
NPN/NO	IN8-18HTNS/L-130
NPN/NC	IN8-18HTNO/L-130

Technical Data:

with LED

Mounting:	Unshielded
Sensing range in mm:	8
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	400 Hz
Short circuit limit:	200 mA
Cable:	Silicone
Operating temperature:	-13 to 266 °F (-25 to 130 °C)
Target size:	18 x 18 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	Yes
Options:	Cable length, Cable type

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 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.

* 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.

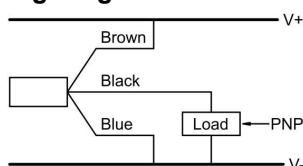
* Leakage current is 4 mA at 24 V supply voltage.

* Residual ripple is 15 %.

* Voltage drop is approximately 2 V when sensor is on.

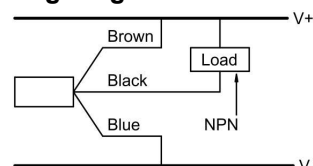
* Sensing face material is: LPC-Vectra.

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

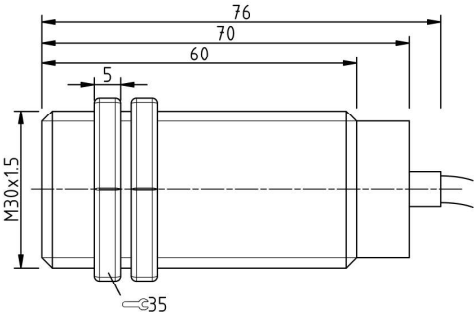
Locon Sensor Systems, Inc.

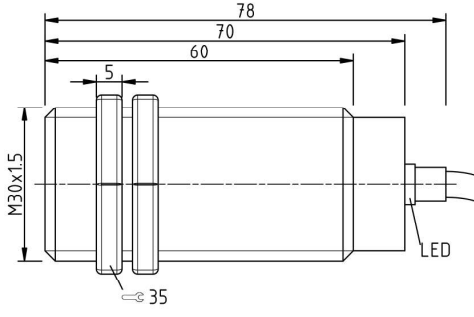
Toll-Free: 800-356-2661 · Phone: 419-740-8445 · Fax: 216-359-0077 · E-mail: sales@locon.net · Website: www.locon.net

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: 10mm - Housing Diameter: M30



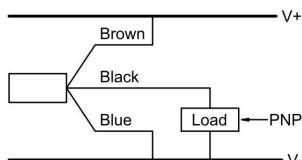
  Dimensions are in mm.		Technical Data:	
Part Numbers:		Mounting:	Shielded
PNP/NO	IN10-30HTPS-180	Sensing range in mm:	10
PNP/NC	IN10-30HTPO-180	Supply voltage:	10-35 VDC
NPN/NO	IN10-30HTNS-180	Output function:	N.O. or N.C.
NPN/NC	IN10-30HTNO-180	Load current:	120 mA
		Switching Frequency:	200 Hz
		Short circuit limit:	200 mA
		Cable:	Silicone
		Operating temperature:	-40 to 356 °F (-40 to 180 °C)
		Target size:	30 x 30 x 1 mm ST37
		Hysteresis:	3 to 15 %
		LED:	No
		Options:	Cable length, Cable type, Connector

  Dimensions are in mm.		Technical Data:	with LED
Part Numbers:		Mounting:	Shielded
PNP/NO	IN10-30HTPS/L-130	Sensing range in mm:	10
PNP/NC	IN10-30HTPO/L-130	Supply voltage:	10-35 VDC
NPN/NO	IN10-30HTNS/L-130	Output function:	N.O. or N.C.
NPN/NC	IN10-30HTNO/L-130	Load current:	120 mA
		Switching Frequency:	200 Hz
		Short circuit limit:	200 mA
		Cable:	Silicone
		Operating temperature:	-13 to 266 °F (-25 to 130 °C)
		Target size:	30 x 30 x 1 mm ST37
		Hysteresis:	3 to 15 %
		LED:	Yes
		Options:	Cable length, Cable type, Connector

These sensors share the following specifications:

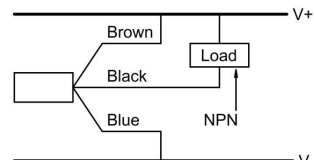
* The EMC (Electromagnetic Compatibility) resistance of the switches: IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV * Sensing range can vary +/-10 %. * Voltage spikes (300 V for 1 ms, 10 Hz) * All standard cables are 3 x 0.25 mm² and a length of 2 m +/-5 %. * Output 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. * 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.
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Wiring Diagram PNP NO/NC



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO/NC



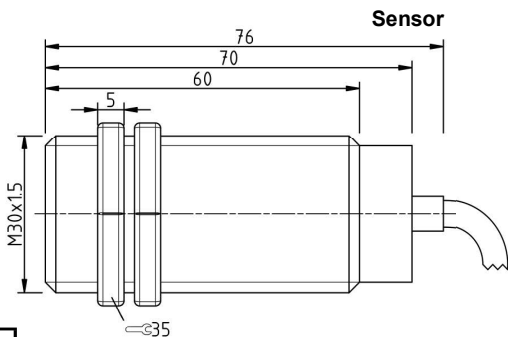
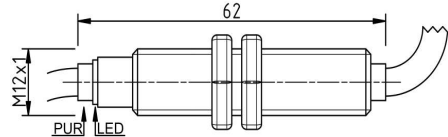
Design and technical details subject to change

Locon Sensor Systems, Inc.

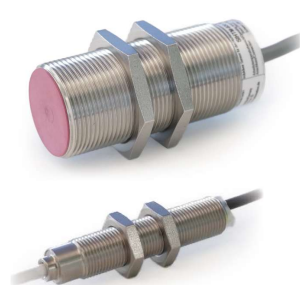
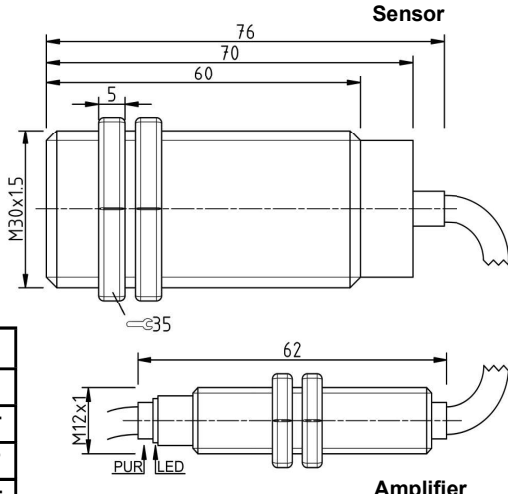
HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: 10mm - Housing Diameter: M30



				Sensor	
Dimensions are in mm.				Amplifier	
Part Numbers:					
PNP/NO	IN10-30HTPS-230EXT				
PNP/NC	IN10-30HTPO-230EXT				
NPN/NO	IN10-30HTNS-230EXT				
NPN/NC	IN10-30HTNO-230EXT				

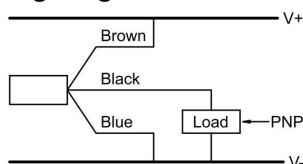
Technical Data:	External amplifier version
Mounting:	Shielded
Sensing range in mm:	10
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	200 Hz
Short circuit limit:	200 mA
Cable:	Sensor: PTFE, Amplifier: PUR
Sensor operating temp.:	-13 to 446 °F (-25 to 230 °C)
Target size:	30 x 30 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	Yes (on amplifier)
Options:	Cable length, Cable type

				<table><thead><tr><th>Technical Data:</th><th>External amplifier version</th></tr></thead><tbody><tr><td>Mounting:</td><td>Shielded</td></tr><tr><td>Sensing range in mm:</td><td>10</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 482 °F (-25 to 250 °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></tbody></table>		Technical Data:	External amplifier version	Mounting:	Shielded	Sensing range in mm:	10	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 482 °F (-25 to 250 °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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Hysteresis:	3 to 15 %																																
LED:	Yes (on amplifier)																																
Options:	Cable length, Cable type																																
Dimensions are in mm.																																	
Part Numbers:																																	
PNP/NO	IN10-30HTPS-250EXT																																
PNP/NC	IN10-30HTPO-250EXT																																
NPN/NO	IN10-30HTNS-250EXT																																
NPN/NC	IN10-30HTNO-250EXT																																

These sensors share the following specifications:

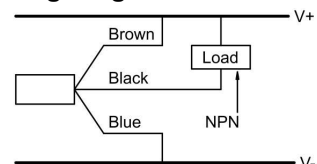
- | | |
|---|---|
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+14 to +158°F (-10 °C to 70 °C). |
|---|---|

Wiring Diagram PNP NO/NC



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO/NC

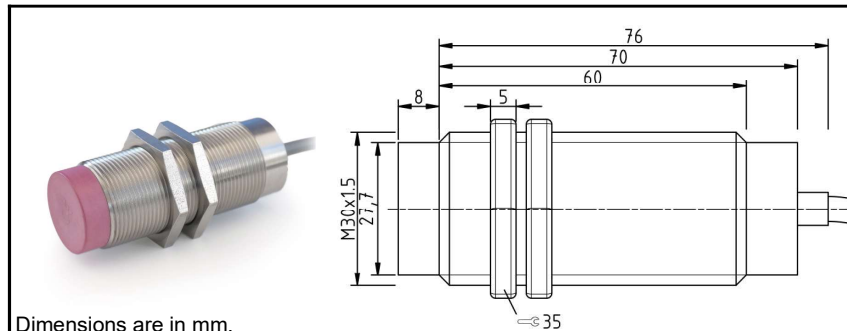


Design and technical details subject to change

Locon Sensor Systems, Inc.

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

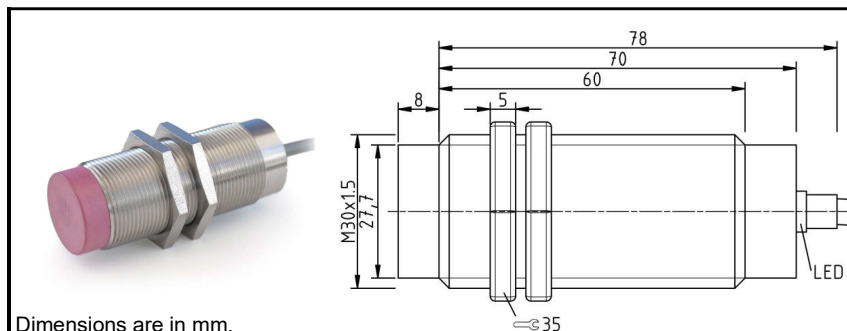
Sensing Distance: 15mm - Housing Diameter: M30



Dimensions are in mm.

Part Numbers:	
PNP/NO	IN15-30HTPS-180
PNP/NC	IN15-30HTPO-180
NPN/NO	IN15-30HTNS-180
NPN/NC	IN15-30HTNO-180

Technical Data:	
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:	Silicone
Operating temperature:	-13 to 356 °F (-25 to 180 °C)
Target size:	30 x 30 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	No
Options:	Cable length, Cable type, Connector



Dimensions are in mm.

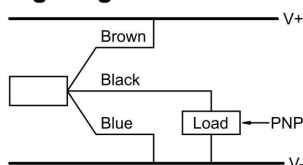
Part Numbers:	
PNP/NO	IN15-30HTPS/L-130
PNP/NC	IN15-30HTPO/L-130
NPN/NO	IN15-30HTNS/L-130
NPN/NC	IN15-30HTNO/L-130

Technical Data: with LED	
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:	Silicone
Operating temperature:	-13 to 266 °F (-25 to 130 °C)
Target size:	30 x 30 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	Yes
Options:	Cable length, Cable type, Connector

These sensors share the following specifications:

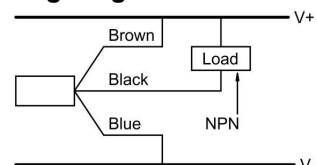
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Wiring Diagram PNP NO/NC



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO/NC



Design and technical details subject to change

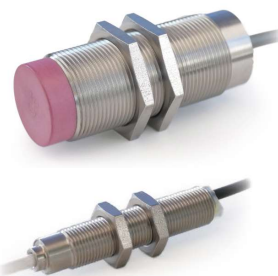
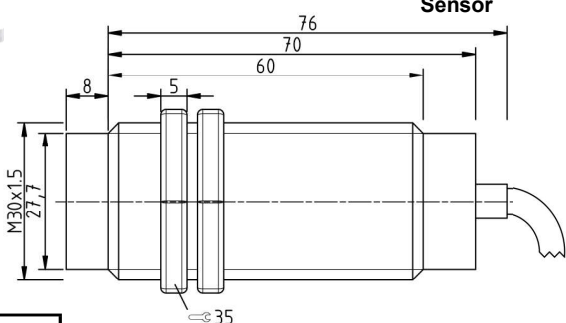
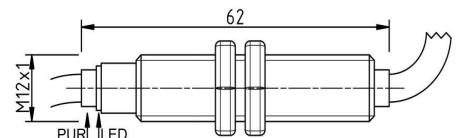
Locon Sensor Systems, Inc.

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HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

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

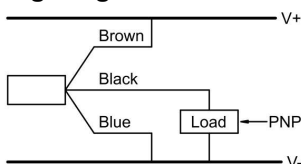


		Dimensions are in mm. Part Numbers: <table><tr><td>PNP/NO</td><td>IN15-30HTPS-230EXT</td></tr><tr><td>PNP/NC</td><td>IN15-30HTPO-230EXT</td></tr><tr><td>NPN/NO</td><td>IN15-30HTNS-230EXT</td></tr><tr><td>NPN/NC</td><td>IN15-30HTNO-230EXT</td></tr></table>		PNP/NO	IN15-30HTPS-230EXT	PNP/NC	IN15-30HTPO-230EXT	NPN/NO	IN15-30HTNS-230EXT	NPN/NC	IN15-30HTNO-230EXT	Sensor  Amplifier 		<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
PNP/NO	IN15-30HTPS-230EXT																																										
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NPN/NO	IN15-30HTNS-230EXT																																										
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Hysteresis:	3 to 15 %																																										
LED:	Yes (on amplifier)																																										
Options:	Cable length, Cable type																																										

This sensor has the following specifications:

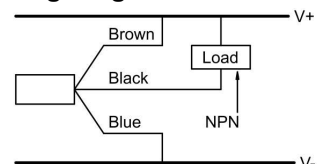
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Wiring Diagram PNP NO/NC



Special types and
silicone free
versions are
available
upon request

Wiring Diagram NPN NO/NC



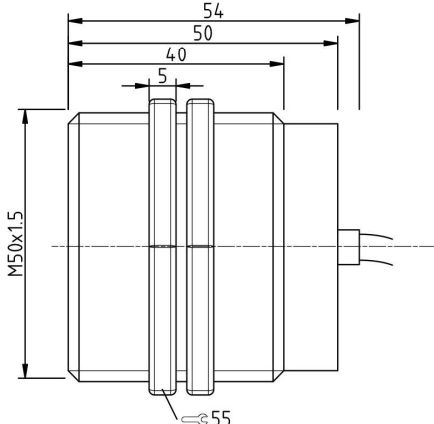
Design and technical details subject to change

Locon Sensor Systems, Inc.

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: **20 mm** - Housing Diameter: **M50**



			Technical Data:	
Dimensions are in mm.			Mounting:	Shielded
Part Numbers:		Sensing range in mm:	20	
PNP/NO	IN20-50HTPS-180	Supply voltage:	10-35 VDC	
PNP/NC	IN20-50HTPO-180	Output function:	N.O. or N.C.	
NPN/NO	IN20-50HTNS-180	Load current:	120 mA	
NPN/NC	IN20-50HTNO-180	Switching Frequency:	200 Hz	
		Short circuit limit:	200 mA	
		Cable:	Silicone	
		Operating temperature:	-13 to 356 °F (-25 to 180 °C)	
		Target size:	50 x 50 x 1 mm ST37	
		Hysteresis:	3 to 20 %	
		LED:	No	
		Options:	Cable length, Cable type, Connector	

Dimensions are in mm.

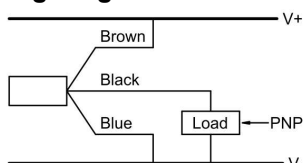
Part Numbers:	
PNP/NO	IN20-50HTPS/L-130
PNP/NC	IN20-50HTPO/L-130
NPN/NO	IN20-50HTNS/L-130
NPN/NC	IN20-30HTNO/L-130

Technical Data:	with LED
Mounting:	Shielded
Sensing range in mm:	20
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:	Silicone
Operating temperature:	-13 to 266 °F (-25 to 130 °C)
Target size:	50 x 50 x 1 mm ST37
Hysteresis:	3 to 20 %
LED:	Yes
Options:	Cable length, Cable type, Connector

These sensors share the following specifications:

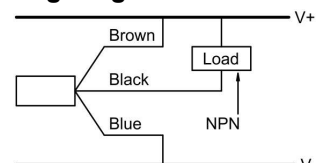
* The EMC (Electromagnetic Compatibility) resistance of the switches: IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV * Sensing range can vary +/- 10 %. * Voltage spikes (300 V for 1 ms, 10 Hz) * All standard cables are 3 x 0.25 mm² and a length of 2 m +/- 5 %. * Output 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. * 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 approximately 2 V when sensor is on. * Sensing face material is: LPC-Vectra.
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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

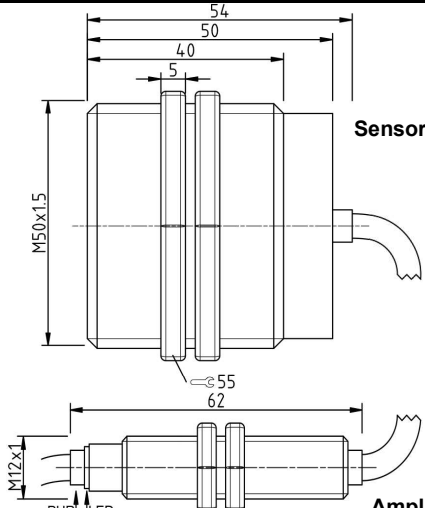
Locon Sensor Systems, Inc.

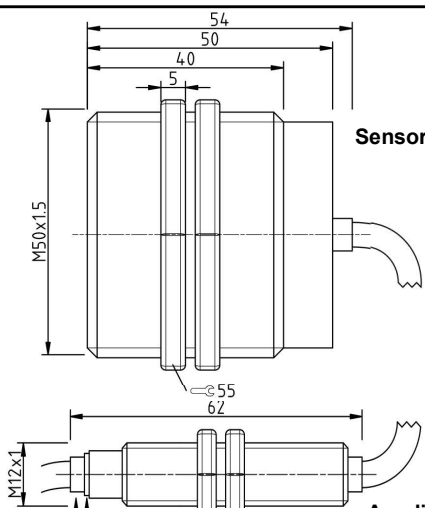
Toll-Free: 800-356-2661 · Phone: 419-740-8445 · Fax: 216-359-0077 · E-mail: sales@locon.net · Website: www.locon.net

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: 20 mm - Housing Diameter: M50



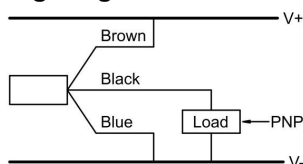
 Dimensions are in mm.		 Sensor Amplifier		Technical Data:	External amplifier version
Part Numbers:				Mounting:	Shielded
PNP/NO	IN20-50HTPS-230EXT			Sensing range in mm:	20
PNP/NC	IN20-50HTPO-230EXT			Supply voltage:	10-35 VDC
NPN/NO	IN20-50HTNS-230EXT			Output function:	N.O. or N.C.
NPN/NC	IN20-50HTNO-230EXT			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:	50 x 50 x 1 mm ST37
				Hysteresis:	3 to 20 %
				LED:	Yes (on amplifier)
				Options:	Cable length, Cable type

 Dimensions are in mm.		 Sensor Amplifier		Technical Data:	External amplifier version
Part Numbers:				Mounting:	Shielded
PNP/NO	IN20-50HTPS-250EXT			Sensing range in mm:	20
PNP/NC	IN20-50HTPO-250EXT			Supply voltage:	10-35 VDC
NPN/NO	IN20-50HTNS-250EXT			Output function:	N.O. or N.C.
NPN/NC	IN20-50HTNO-250EXT			Load current:	120 mA
				Switching Frequency:	200 Hz
				Short circuit limit:	200 mA
				Cable:	Sensor: PTFE, Amplifier: PUR
				Sensor operating temp.:	-13 to 482 °F (-25 to 250 °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:

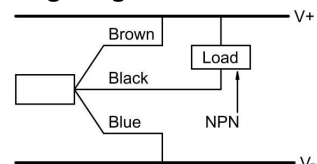
- * The EMC (Electromagnetic Compatibility) resistance of the switches:
 - IEC 61000-4-2 Level 2
 - IEC 61000-4-3 Level 2
 - IEC 61000-4-4 Level 2
 - IEC 60255-5 1 kV
- * Sensing range can vary +/- 10 %.
- * Voltage spikes (300 V for 1 ms, 10 Hz)
- * All standard cables are 3 x 0.25 mm² and a length 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.
- * 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 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).

Wiring Diagram PNP NO/NC



Special types and
silicone free
versions are
available
upon request

Wiring Diagram NPN NO/NC



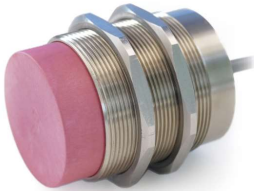
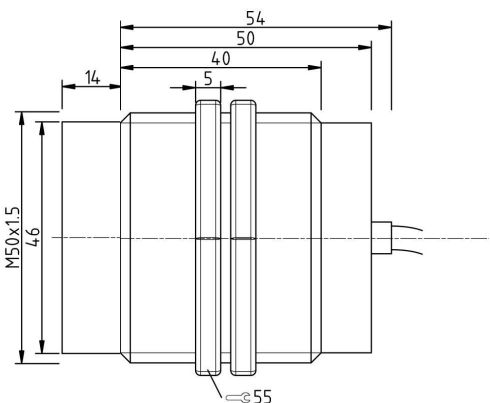
Design and technical details subject to change

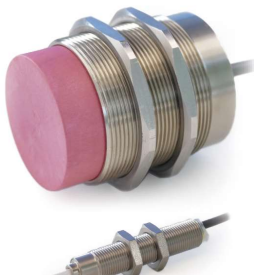
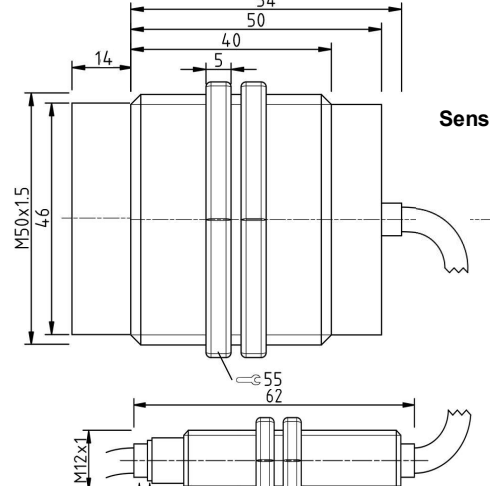
Locon Sensor Systems, Inc.

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: 25 mm - Housing Diameter: M50



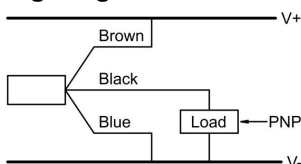
				Technical Data:	
Dimensions are in mm.				Mounting:	Unshielded
Part Numbers:				Sensing range in mm:	25
PNP/NO	IN25-50HTPS-180			Supply voltage:	10-35 VDC
PNP/NC	IN25-50HTPO-180			Output function:	N.O. or N.C.
NPN/NO	IN25-50HTNS-180			Load current:	120 mA
NPN/NC	IN25-50HTNO-180			Switching Frequency:	50 Hz
				Short circuit limit:	200 mA
				Cable version:	Silicone
				Operating temperature:	-13 to 356 °F (-25 to 180 °C)
				Target size:	50 x 50 x 1 mm ST37
				Hysteresis:	3 to 20 %
				LED:	No
				Options:	Cable length, Cable type, Connector

				Technical Data:	External amplifier version
Dimensions are in mm.				Mounting:	Unshielded
Part Numbers:				Sensing range in mm:	25
PNP/NO	IN25-50HTPS-230EXT			Supply voltage:	10-35 VDC
PNP/NC	IN25-50HTPO-230EXT			Output function:	N.O. or N.C.
NPN/NO	IN25-50HTNS-230EXT			Load current:	120 mA
NPN/NC	IN25-50HTNO-230EXT			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:

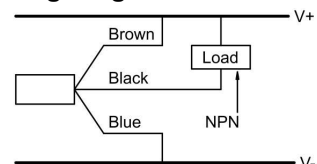
* The EMC (Electromagnetic Compatibility) resistance of the switches: IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2 IEC 61000-4-3 Level 2 IEC 60255-5 1 kV	* Shock resistant to 5 g for a period of 11 ms. * Degree of protection (DIN 40 050) is IP67 (higher IP options may be available). * Reverse polarity 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 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).
* 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.	

Wiring Diagram PNP NO/NC



Special types and
silicone free
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upon request

Wiring Diagram NPN NO/NC

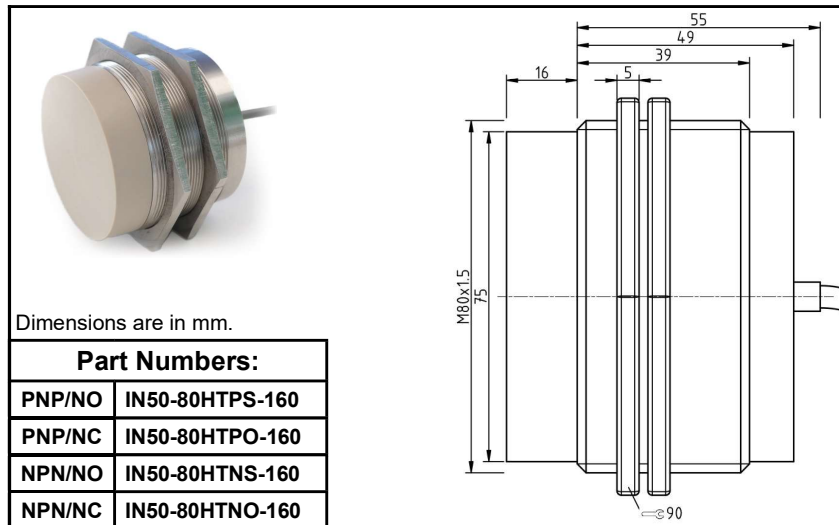


Design and technical details subject to change

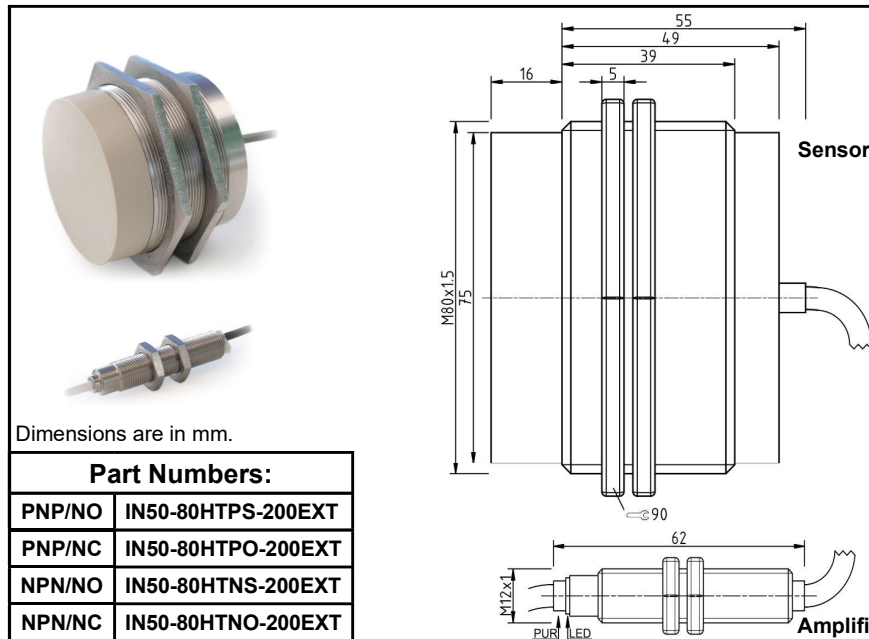
Locon Sensor Systems, Inc.

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

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



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

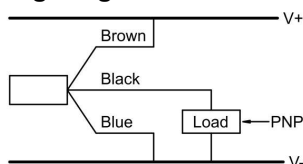


Technical Data:	External amplifier version
Mounting:	Unshielded
Sensing range in mm:	50
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	50 Hz
Short circuit limit:	200 mA
Cable:	Sensor: PTFE, Amplifier: PUR
Operating temperature:	-13 to 392 °F (-25 to 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:

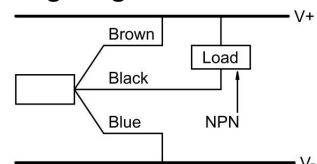
- * The EMC (Electromagnetic Compatibility) resistance of the switches:
 - IEC 61000-4-2 Level 2
 - IEC 61000-4-3 Level 2
 - IEC 61000-4-4 Level 2
 - IEC 60255-5 1 kV
- * Sensing range can vary +/-10 %.
- * Voltage spikes (300 V for 1 ms, 10 Hz)
- * All standard cables are 3 x 0.25 mm² and a length of 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.
- * 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 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).

Wiring Diagram PNP NO/NC



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silicone free
versions are
available
upon request

Wiring Diagram NPN NO/NC



Design and technical details subject to change

Locon Sensor Systems, Inc.