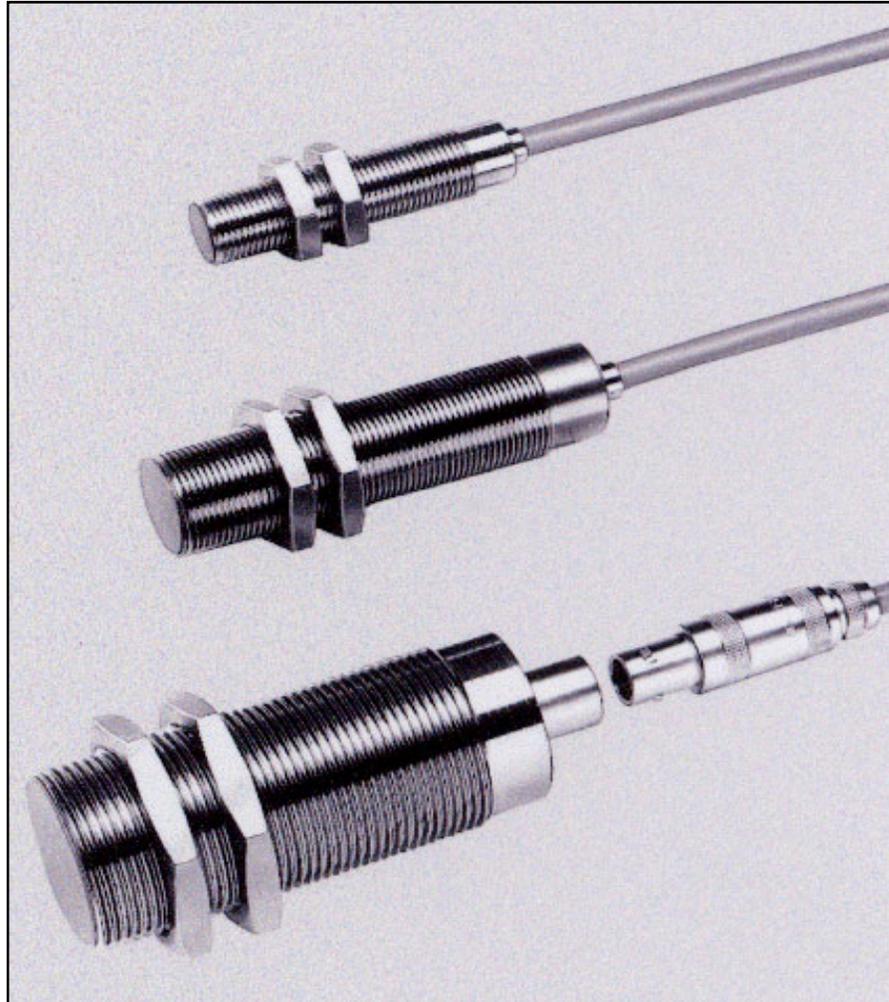


LOCON SENSOR PRODUCTS

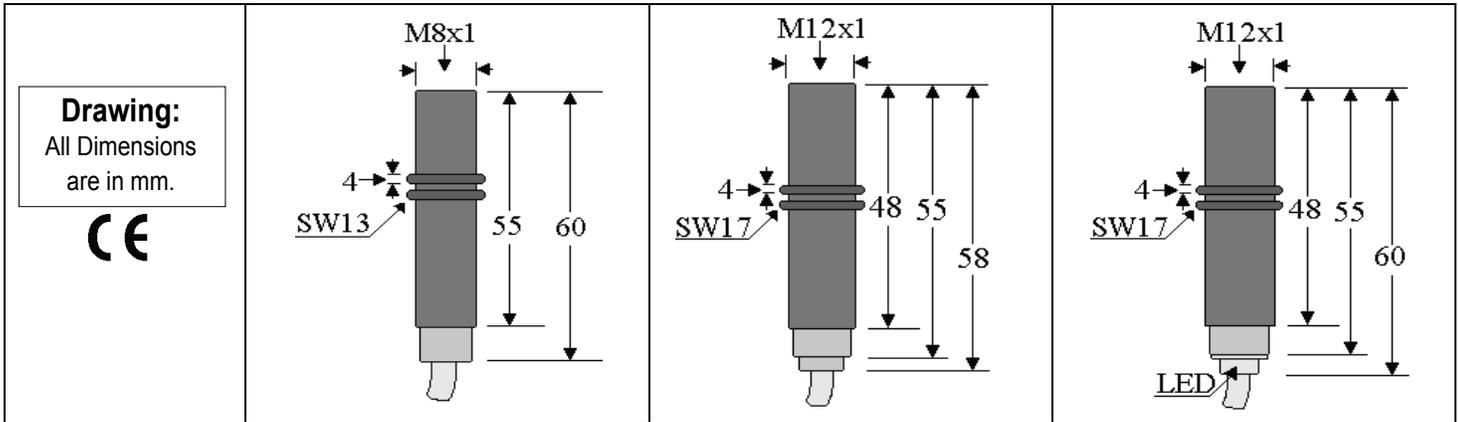
HIGH TEMPERATURE INDUCTIVE SENSORS



FEATURES

- 8 to 80mm housing options
- -40° to 482° F temperature range
- 2 to 50mm sensing range

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS



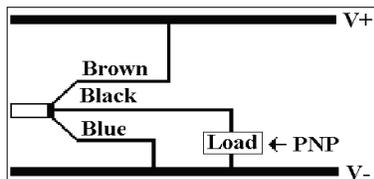
These sensors share the following specifications

- * 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 +/-20%
- * Voltage spikes (300V for 1mS, 10Hz)
- * All standard cables are 3 x 0.25mm² and a length of 2M.
- * Output capacity is 100nF.
- * Storage temperature -13°F to +176°F.
- * Relative humidity is 100%
- * Vibration resistant to 1mm amplitude at 55Hz.
- * Shock resistant to 30g for a period of 11mS.
- * Degree of protection (DIN 40 050) is IP67 (option: IP68)
- * Reverse polarity protection is incorporated on the supply voltage.
- * Load resistor of 100 KOhm is incorporated.
- * Leakage current is 8mA at 24V supply voltage.
- * Residual ripple is 15%
- * Voltage drop is approximately 2V when sensor is on.

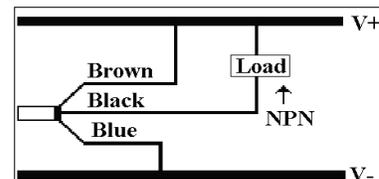
Technical Data:			
Mounting:	Shielded	Shielded	Shielded
Sensing range in mm:	2	3	3
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	120mA up to 266°F, 70mA up to 284°F	120mA up to 266°F, 70mA up to 302°F	120mA
Switching Frequency:	800Hz	500Hz	500Hz
Short circuit limit:	Not available	Not available	Not available
Cable version:	Silicone	Silicone	Silicone
Operating temperature:	-14 to 284°F / -25 to 140°C	-14 to 302°F / -25 to 150°C	-14 to 266°F / -25 to 130°C
Target size:	8 x 8 x 1 mm ST37	12 x 12 x 1 mm ST37	12 x 12 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%	3 to 15%
LED:	No	No	Yes
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector	Cable length, Cable type, Connector
Part Numbers:			
PNP:	IN2-8HTPS	IN3-12HTPS	IN3-12HTPS/L
NPN:	Consult Factory	Consult Factory	Consult Factory

Wiring Diagram PNP NO/NC

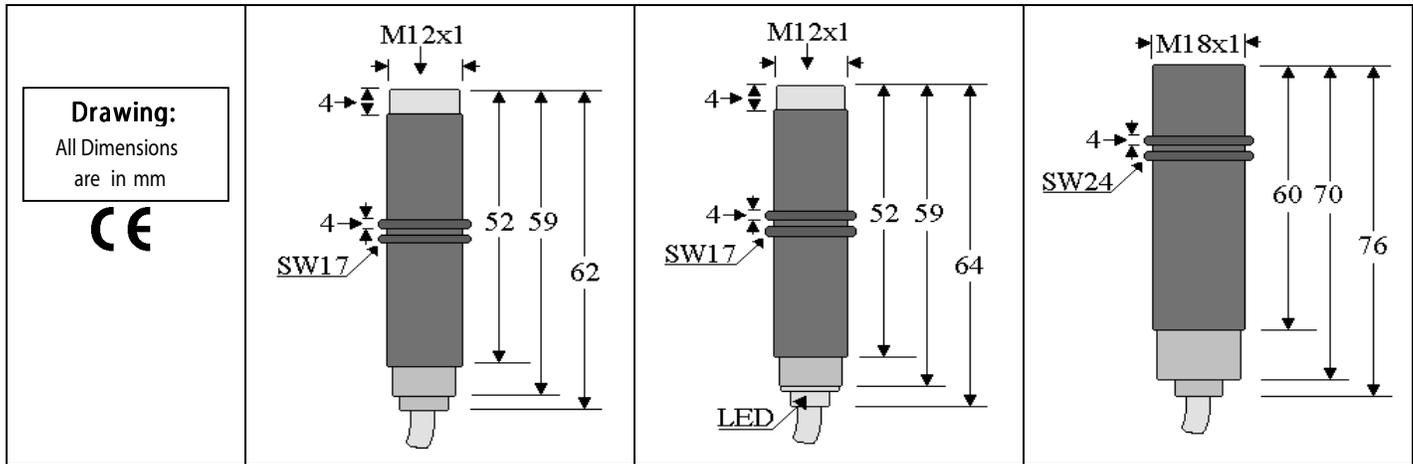


Special types and silicone free Versions are available upon request

Wiring Diagram NPN NO/NC



HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

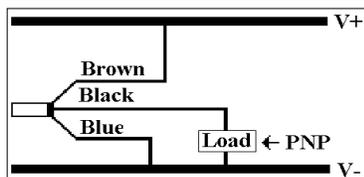


These sensors share the following specifications

- * 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 +/-20%
- * Voltage spikes (300V for 1mS, 10Hz)
- * All standard cables are 3 x 0.25mm² and a length of 2M.
- * Output capacity is 100nF.
- * Storage temperature -13°F to +176°F.
- * Relative humidity is 100%
- * Vibration resistant to 1mm amplitude at 55Hz.
- * Shock resistant to 30g for a period of 11mS.
- * Degree of protection (DIN 40 050) is IP67 (option: IP68)
- * Reverse polarity protection is incorporated on the supply voltage.
- * Load resistor of 100 KOhm is incorporated.
- * Leakage current is 8mA at 24V supply voltage.
- * Residual ripple is 15%
- * Voltage drop is approximately 2V when sensor is on.

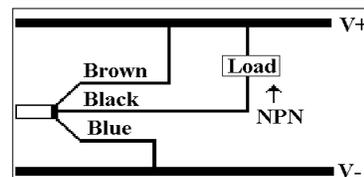
Technical Data:	Unshielded	Unshielded	Shielded
Mounting:	Unshielded	Unshielded	Shielded
Sensing range in mm:	4	4	5
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	120mA up to 266°F, 70mA up to 302°F	120mA	150mA
Switching Frequency:	200Hz	200Hz	200Hz
Short circuit limit:	Not available	Not available	200mA
Cable version:	Silicone	Silicone	Silicone
Operating temperature:	-14 to 302°F / -25 to 150°C	-14 to 266°F / -25 to 130°C	-14 to 356°F / -25 to 180°C
Target size:	12 x 12 x 1 mm ST37	12 x 12 x 1 mm ST37	18 x 18 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%	3 to 15%
LED:	No	Yes	No
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector	Cable length, Cable type, Connector
Part Numbers:			
PNP:	IN4-12HTPSNB	IN4-12HTPSNB/L	IN5-18HTPS
NPN:	Consult Factory	Consult Factory	IN5-18HTNS

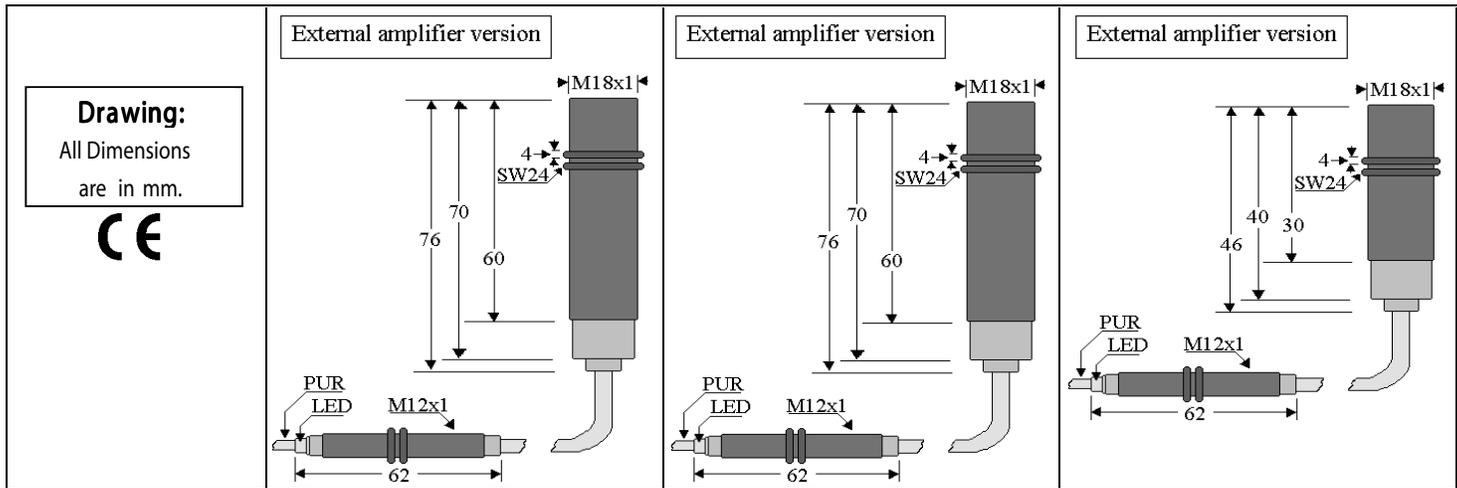
Wiring Diagram PNP NO/NC



Special types and silicone free Versions are available upon request

Wiring Diagram NPN NO/NC



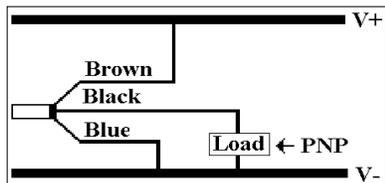


These sensors share the following specifications

- | | |
|--|---|
| <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 +/-20% * Voltage spikes (300V for 1mS, 10Hz) * All standard cables are 3 x 0.25mm² and a length of 2M. * Output capacity is 100nF. * Storage temperature -13°F to +176°F. * Relative humidity is 100% | <ul style="list-style-type: none"> * Vibration resistant to 1mm amplitude at 55Hz. * Shock resistant to 30g for a period of 11mS. * Degree of protection (DIN 40 050) is IP67 (option: IP68) * Reverse polarity protection is incorporated on the supply voltage. * Load resistor of 100 KOhm is incorporated. * Leakage current is 8mA at 24V supply voltage. * Residual ripple is 15% * Voltage drop is approximately 2V when sensor is on. |
|--|---|

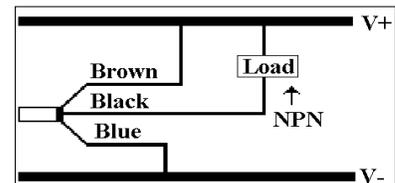
Technical Data:			
Mounting:	Shielded	Shielded	Shielded
Sensing range in mm:	5	5	5
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	150mA	150mA	150mA
Switching Frequency:	400Hz	400Hz	400Hz
Short circuit limit:	200mA	200mA	200mA
Cable version:	Teflon	Teflon	Teflon
Operating temperature:	-14 to 446°F / -25 to 230°C	-14 to 482°F / -25 to 250°C	-14 to 446°F / -25 to 230°C
Target size:	18 x 18 x 1 mm ST37	18 x 18 x 1 mm ST37	18 x 18 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%	3 to 15%
LED:	Yes (on amplifier)	Yes (on amplifier)	Yes (on amplifier)
Options:	Cable length and cable type	Cable length and cable type	Cable length and cable type
Part Numbers:			
PNP:	IN5-18HTPSext	IN5-18HTPSext-250	IN5-1835HTPSext
NPN:	IN5-18HTNSext	IN5-18HTNSext-250	IN5-1835HTNSext

Wiring Diagram PNP NO/NC

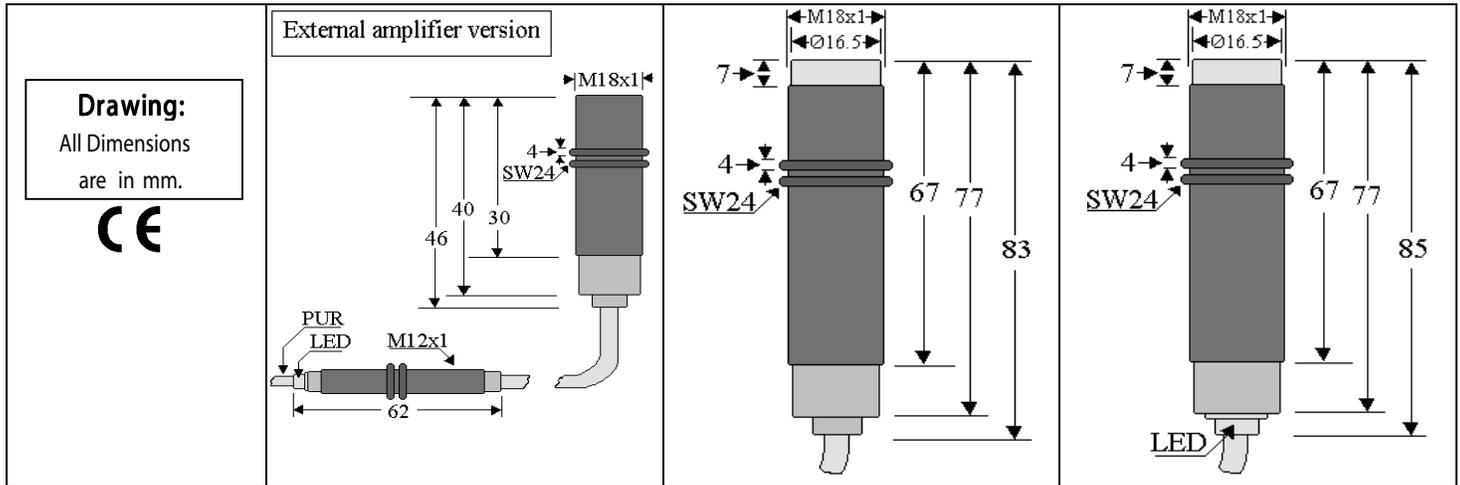


Special types and silicone free Versions are available upon request

Wiring Diagram NPN NO/NC



HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

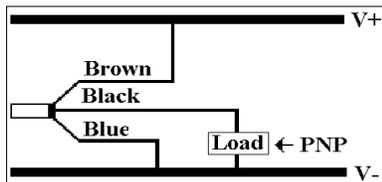


These sensors share the following specifications

- | | |
|--|---|
| <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 +/-20% * Voltage spikes (300V for 1mS, 10Hz) * All standard cables are 3 x 0.25mm² and a length of 2M. * Output capacity is 100nF. * Storage temperature -13°F to +176°F. * Relative humidity is 100% | <ul style="list-style-type: none"> * Vibration resistant to 1mm amplitude at 55Hz. * Shock resistant to 30g for a period of 11mS. * Degree of protection (DIN 40 050) is IP67 (option: IP68) * Reverse polarity protection is incorporated on the supply voltage. * Load resistor of 100 KOhm is incorporated. * Leakage current is 8mA at 24V supply voltage. * Residual ripple is 15% * Voltage drop is approximately 2V when sensor is on. |
|--|---|

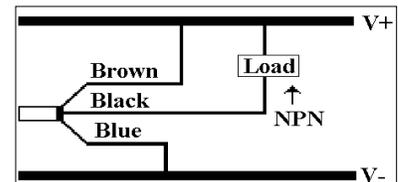
Technical Data:			
Mounting:	Shielded	Unshielded	Shielded
Sensing range in mm:	5	8	8
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	150mA	150mA	150mA
Switching Frequency:	200Hz	150Hz	150Hz
Short circuit limit:	200mA	200mA	200mA
Cable version:	Teflon	Silicone	Silicone
Operating temperature:	-14 to 482°F / -25 to 250°C	-40 to 356°F / -40 to 180°C	-40 to 266°F / -40 to 130°C
Target size:	18 x 18 x 1 mm ST37	18 x 18 x 1 mm ST37	18 x 18 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%	3 to 15%
LED:	Yes (on amplifier)	No	Yes
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector	Cable length, Cable type, Connector
Part Numbers:			
PNP:	IN5-1835HTPSext-250	IN8-HTPSNB	IN8-HTPSNB/L
NPN:	Consult Factory	IN8-HTNSNB	IN8-HTNSNB/L

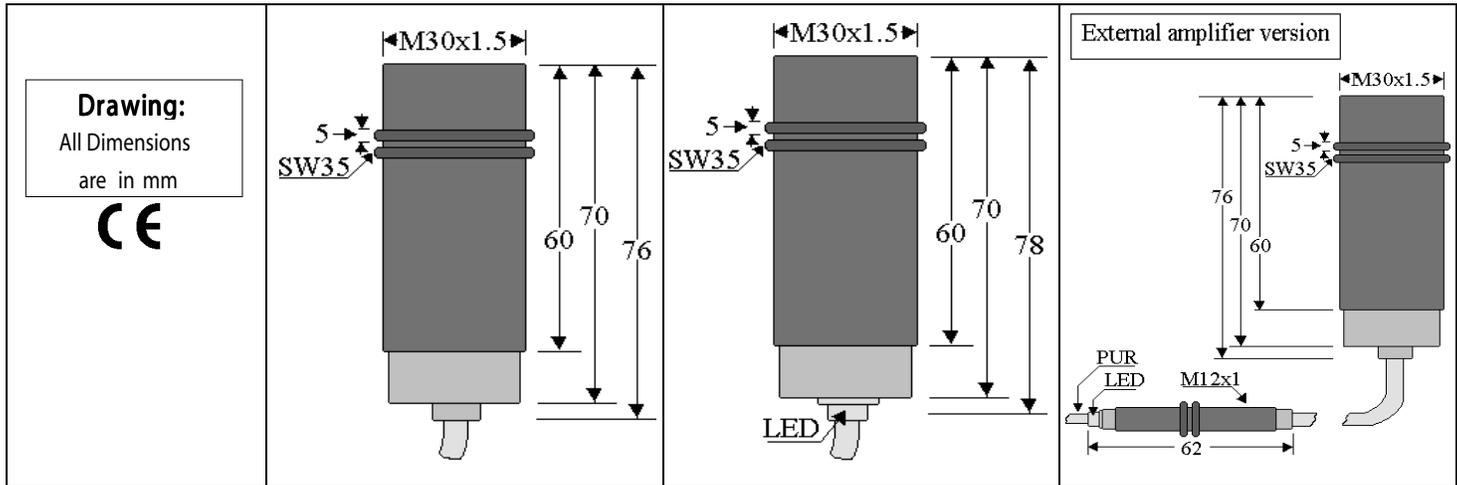
Wiring Diagram PNP NO/NC



Special types and silicone free Versions are available upon request

Wiring Diagram NPN NO/NC





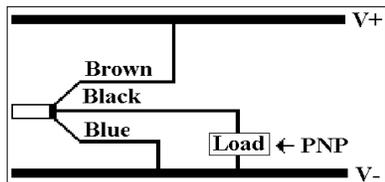
These sensors share the following specifications

- | | |
|---|---|
| <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 +/-20% * Voltage spikes (300V for 1mS, 10Hz) * All standard cables are 3 x 0.25mm² and a length of 2M. * Output capacity is 100nF. * Storage temperature -13°F to +176°F. * Relative humidity is 100% | <ul style="list-style-type: none"> * Vibration resistant to 1mm amplitude at 55Hz. * Shock resistant to 30g for a period of 11mS. * Degree of protection (DIN 40 050) is IP67 (option: IP68) * Reverse polarity protection is incorporated on the supply voltage. * Load resistor of 100 KOhm is incorporated. * Leakage current is 8mA at 24V supply voltage. * Residual ripple is 15% * Voltage drop is approximately 2V when sensor is on. |
|---|---|

Technical Data:

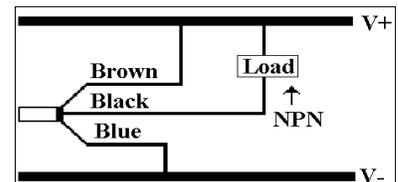
Mounting:	Shielded	Shielded	Shielded
Sensing range in mm:	10	10	10
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	150mA	150mA	150mA
Switching Frequency:	100Hz	100Hz	100Hz
Short circuit limit:	200mA	200mA	200mA
Cable version:	Silicone	Silicone	Teflon
Operating temperature:	-40 to 356°F / -40 to 180°C	-40 to 266°F / -40 to 130°C	-14 to 446°F / -25 to 230°C
Target size:	30 x 30 x 1 mm ST37	30 x 30 x 1 mm ST37	30 x 30 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%	3 to 15%
LED:	No	Yes	Yes (on amplifier)
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector	Cable length, Cable type, Connector
Part Numbers:			
PNP:	IN10-30HTPS	IN10-30HTPS/L	IN10-30HTPSext
NPN:	IN10-30HTNS	IN10-30HTNS/L	Consult Factory

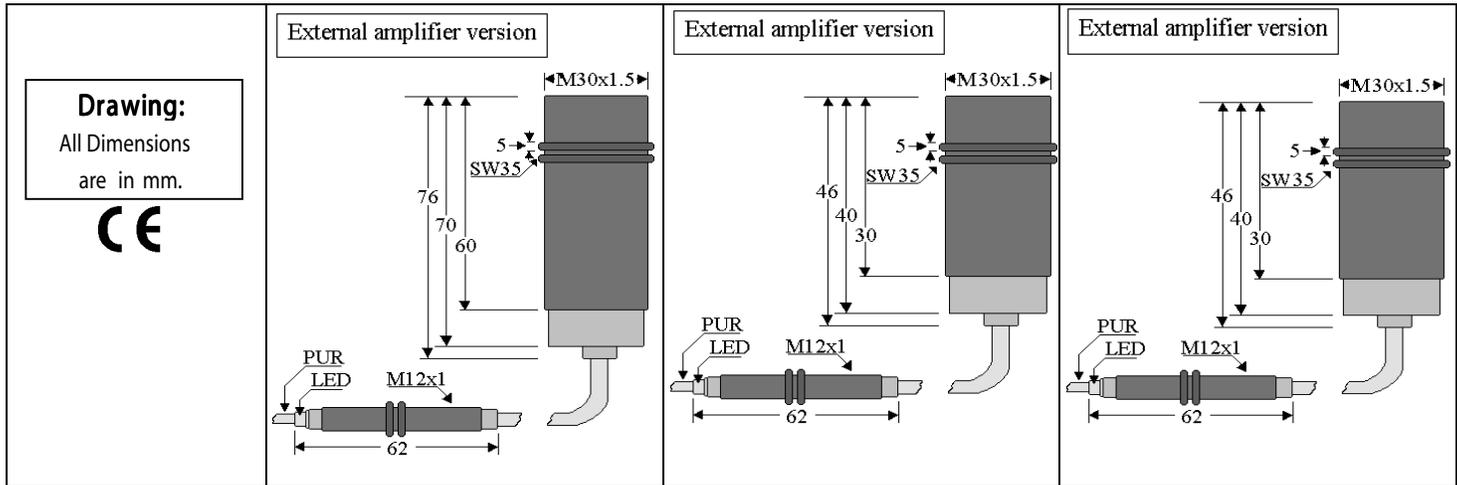
Wiring Diagram PNP NO/NC



Special types and silicone free
Versions are available upon request

Wiring Diagram NPN NO/NC



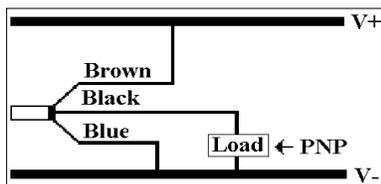


These sensors share the following specifications

- * 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 +/-20%
- * Voltage spikes (300V for 1mS, 10Hz)
- * All standard cables are 3 x 0.25mm² and a length of 2M.
- * Output capacity is 100nF.
- * Storage temperature -13°F to +176°F.
- * Relative humidity is 100%
- * Vibration resistant to 1mm amplitude at 55Hz.
- * Shock resistant to 30g for a period of 11mS.
- * Degree of protection (DIN 40 050) is IP67 (option: IP68)
- * Reverse polarity protection is incorporated on the supply voltage.
- * Load resistor of 100 KOhm is incorporated.
- * Leakage current is 8mA at 24V supply voltage.
- * Residual ripple is 15%
- * Voltage drop is approximately 2V when sensor is on.

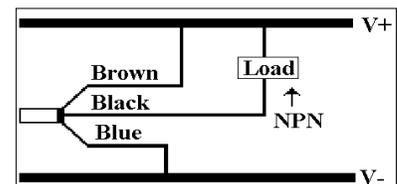
Technical Data:			
Mounting:	Shielded	Shielded	Shielded
Sensing range in mm:	10	10	10
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	150mA	150mA	150mA
Switching Frequency:	100Hz	100Hz	100Hz
Short circuit limit:	200mA	200mA	200mA
Cable version:	Teflon	Teflon	Teflon
Operating temperature:	-14 to 482°F / -25 to 250°C	-14 to 446°F / -25 to 230°C	-14 to 482°F / -25 to 250°C
Target size:	30 x 30 x 1 mm ST37	30 x 30 x 1 mm ST37	30 x 30 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%	3 to 15%
LED:	Yes (on amplifier)	Yes (on amplifier)	Yes (on amplifier)
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector	Cable length, Cable type, Connector
Part Numbers:			
PNP:	IN10-30HTPSext-250	IN10--3035HTPSext	IN10--3035HTPSext-250
NPN:	Consult Factory	Consult Factory	Consult Factory

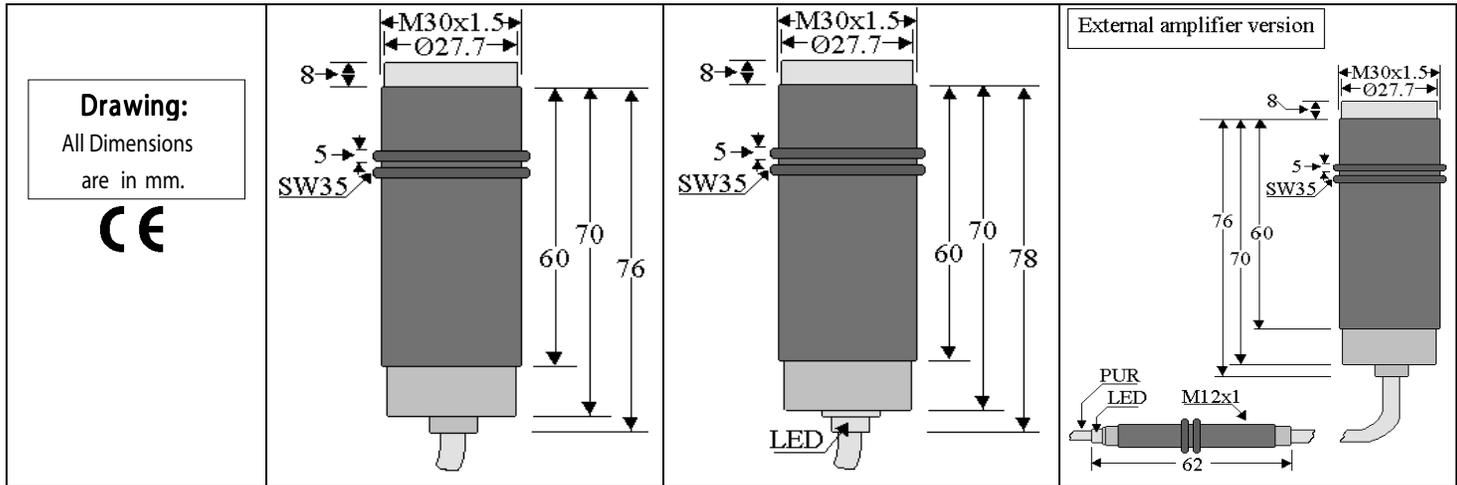
Wiring Diagram PNP NO/NC



Special types and silicone free
Versions are available upon request

Wiring Diagram NPN NO/NC





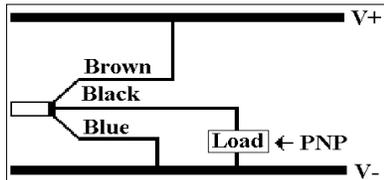
Drawing:
All Dimensions
are in mm.
CE

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 +/-20%
- * Voltage spikes (300V for 1mS, 10Hz)
- * All standard cables are 3 x 0.25mm² and a length of 2M.
- * Output capacity is 100nF.
- * Storage temperature -13°F to +176°F.
- * Relative humidity is 100%
- * Vibration resistant to 1mm amplitude at 55Hz.
- * Shock resistant to 30g for a period of 11mS.
- * Degree of protection (DIN 40 050) is IP67 (option: IP68)
- * Reverse polarity protection is incorporated on the supply voltage.
- * Load resistor of 100 KOhm is incorporated.
- * Leakage current is 8mA at 24V supply voltage.
- * Residual ripple is 15%
- * Voltage drop is approximately 2V when sensor is on.

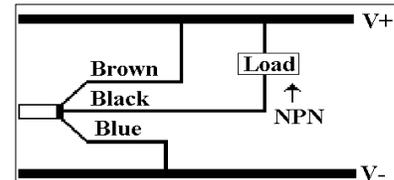
Technical Data:			
Mounting:	Unshielded	Unshielded	Unshielded
Sensing range in mm:	15	15	15
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	150mA	150mA	150mA
Switching Frequency:	50Hz	50Hz	100Hz
Short circuit limit:	200mA	200mA	200mA
Cable version:	Silicone	Silicone	Teflon
Operating temperature:	-14 to 356°F / -25 to 180°C	-14 to 266°F / -25 to 130°C	-14 to 446°F / -25 to 230°C
Target size:	30 x 30 x 1 mm ST37	30 x 30 x 1 mm ST37	30 x 30 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%	3 to 15%
LED:	No	Yes	Yes(on amplifier)
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector	Cable length, Cable type, Connector
Part Numbers:			
PNP:	IN15-30HTPS	IN15-30HTPS/L	IN15-30HTPSext
NPN:	IN15-30HTNS	IN15-30HTNS/L	Consult Factory

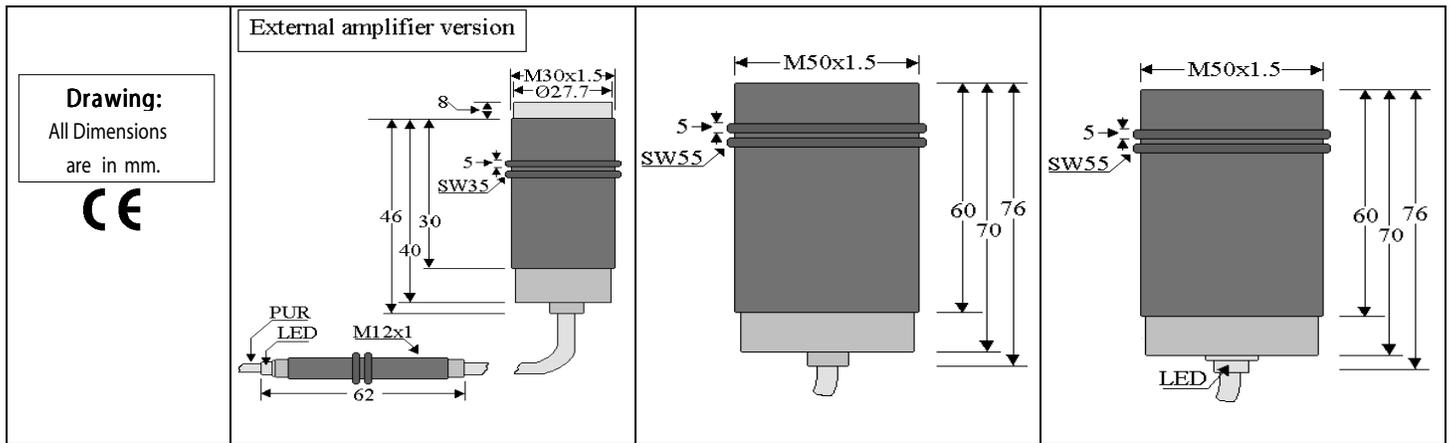
Wiring Diagram PNP NO/NC



Special types and silicone free Versions are available upon request

Wiring Diagram NPN NO/NC



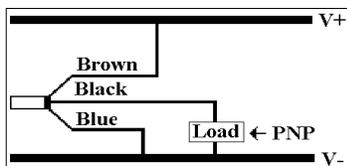


These sensors share the following specifications

- * 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 +/-20%
- * Voltage spikes (300V for 1mS, 10Hz)
- * All standard cables are 3 x 0.25mm² and a length of 2M.
- * Output capacity is 100nF.
- * Storage temperature -13°F to +176°F.
- * Relative humidity is 100 %
- * Vibration resistant to 1mm amplitude at 55Hz.
- * Shock resistant to 30g for a period of 11mS.
- * Degree of protection (DIN 40 050) is IP67 (option: IP68)
- * Reverse polarity protection is incorporated on the supply voltage.
- * Load resistor of 100 KOhm is incorporated.
- * Leakage current is 8mA at 24V supply voltage.
- * Residual ripple is 15%
- * Voltage drop is approximately 2V when sensor is on.

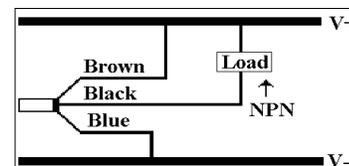
Technical Data:	Unshielded	Shielded	Shielded
Mounting:	Unshielded	Shielded	Shielded
Sensing range in mm:	15	20	20
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	150mA	150mA	150mA
Switching Frequency:	100Hz	50Hz	50Hz
Short circuit limit:	200mA	200mA	200mA
Cable version:	Teflon	Silicone	Silicone
Operating temperature:	-14 to 446°F / -25 to 230°C	-14 to 356°F / -25 to 180°C	-14 to 266°F / -25 to 130°C
Target size:	30 x 30 x 1 mm ST37	50 x 50 x 1 mm ST37	50 x 50 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 20%	3 to 20%
LED:	Yes (on amplifier)	No	Yes
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector	Cable length, Cable type, Connector
Part Numbers:			
PNP:	IN15-3045HTPSext	IN20-50HTPS	IN20-50HTPS/L
NPN:	Consult Factory	IN20-50HTNS	IN20-50HTNS/L

Wiring Diagram PNP NO/NC

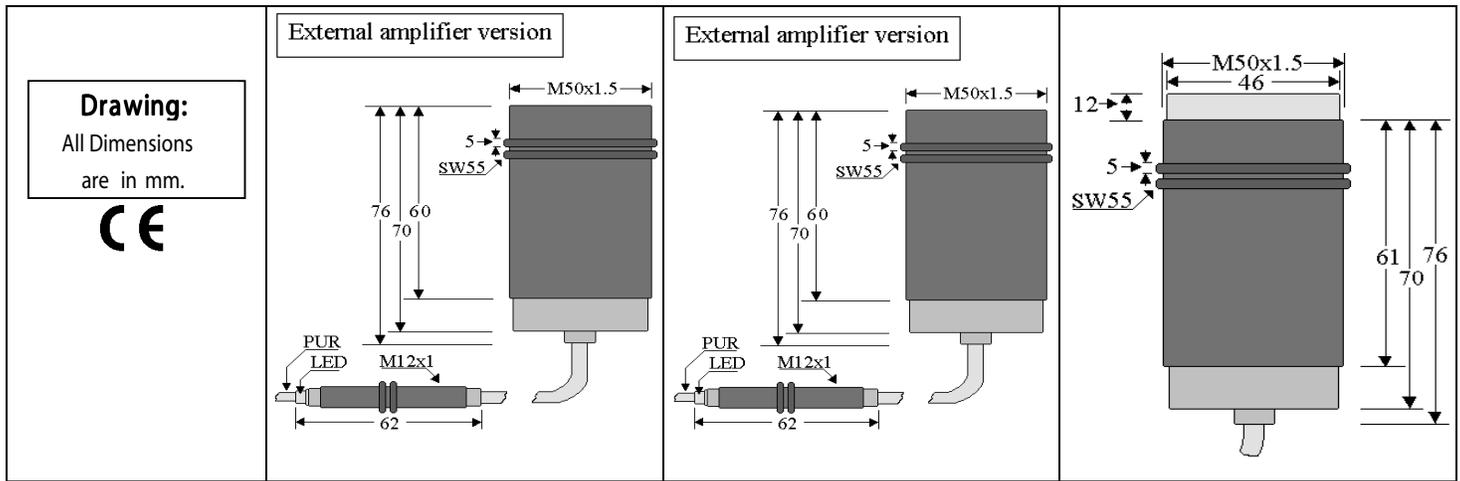


Special types and silicone free Versions are available upon request

Wiring Diagram NPN NO/NC



HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS



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 +/-20%
- * Voltage spikes (300V for 1mS, 10Hz)
- * All standard cables are 3 x 0.25mm² and a length of 2M.
- * Output capacity is 100nF.
- * Storage temperature -13°F to +176°F.
- * Relative humidity is 100%
- * Vibration resistant to 1mm amplitude at 55Hz.
- * Shock resistant to 30g for a period of 11mS.
- * Degree of protection (DIN 40 050) is IP67 (option: IP68)
- * Reverse polarity protection is incorporated on the supply voltage.
- * Load resistor of 100 KOhm is incorporated.
- * Leakage current is 8mA at 24V supply voltage.
- * Residual ripple is 15%
- * Voltage drop is approximately 2V when sensor is on.

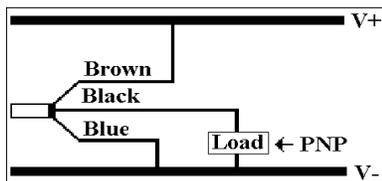
Technical Data:

Mounting:	Shielded	Shielded	Unshielded
Sensing range in mm:	20	20	30
Supply voltage:	10-35VDC	10-35VDC	10-35VDC
Output function:	N.O.	N.O.	N.O.
Load current:	150mA	150mA	150mA
Switching Frequency:	100Hz	100Hz	50Hz
Short circuit limit:	200mA	200mA	200mA
Cable version:	Teflon	Teflon	Silicone
Operating temperature:	-14 to 446°F / -25 to 230°C	-14 to 482°F / -25 to 250°C	-14 to 356°F / -25 to 180°C
Target size:	50 x 50 x 1 mm ST37	50 x 50 x 1 mm ST37	50 x 50 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%	3 to 15%
LED:	Yes (on amplifier)	Yes (on amplifier)	No
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector	Cable length, Cable type, Connector

Part Numbers:

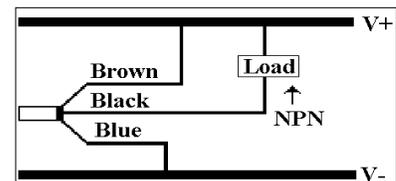
PNP:	IN20-50HTPSext	IN20-50HTPSext-250	IN30-50HTPS
NPN:	Consult Factory	Consult Factory	Consult Factory

Wiring Diagram PNP NO/NC

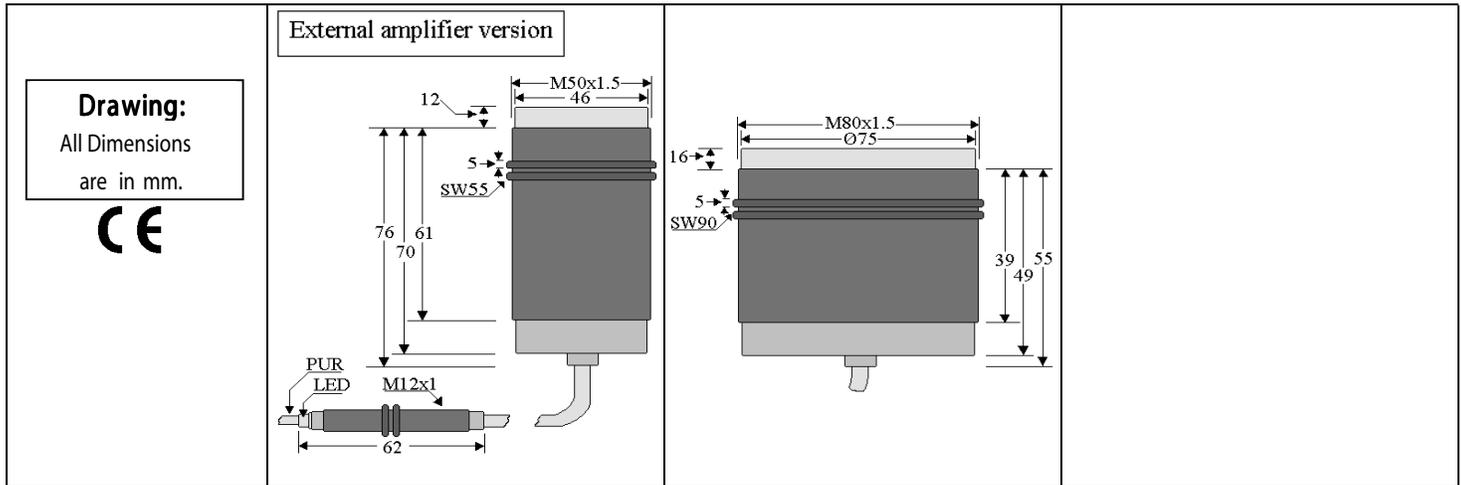


Special types and silicone free Versions are available upon request

Wiring Diagram NPN NO/NC



HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

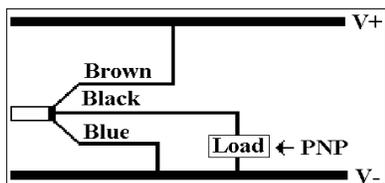


These sensors share the following specifications

- * 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 +/-20%
- * Voltage spikes (300V for 1mS, 10Hz)
- * All standard cables are 3 x 0.25mm² and a length of 2M.
- * Output capacity is 100nF.
- * Storage temperature -13°F to +176°F.
- * Relative humidity is 100%
- * Vibration resistant to 1mm amplitude at 55Hz.
- * Shock resistant to 30g for a period of 11mS.
- * Degree of protection (DIN 40 050) is IP67 (option: IP68)
- * Reverse polarity protection is incorporated on the supply voltage.
- * Load resistor of 100 KOhm is incorporated.
- * Leakage current is 8mA at 24V supply voltage.
- * Residual ripple is 15%
- * Voltage drop is approximately 2V when sensor is on.

Technical Data:		
Mounting:	Unshielded	Unshielded
Sensing range in mm:	30	50
Supply voltage:	10-35VDC	10-35VDC
Output function:	N.O.	N.O.
Load current:	150mA	150mA
Switching Frequency:	100Hz	50Hz
Short circuit limit:	200mA	200mA
Cable version:	Teflon	Silicone
Operating temperature:	-14 to 446°F / -25 to 230°C	-40 to 356°F / -40 to 180°C
Target size:	50 x 50 x 1 mm ST37	80 x 80 x 1 mm ST37
Hysteresis:	3 to 15%	3 to 15%
LED:	Yes (on amplifier)	No
Options:	Cable length, Cable type, Connector	Cable length, Cable type, Connector
Part Numbers:		
PNP:	IN30-50HTPSext	IN50-80HTPS
NPN:	Consult Factory	IN50-80HTNS

Wiring Diagram PNP NO/NC



Special types and silicone free Versions are available upon request

Wiring Diagram NPN NO/NC

