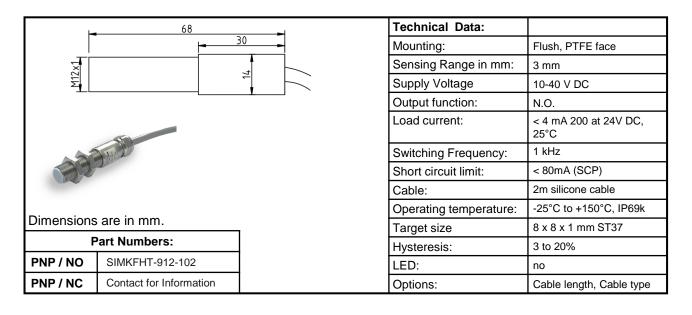
## **IP69k INDUCTIVE WASHDOWN SENSORS**

Sensing Distance: **3mm** – Housing Diameter: **M12** 



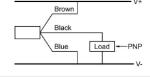


#### This sensor has the following specifications:

- \* 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
- \* 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 IP69k.
- \* 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: PTFE.

#### Wiring Diagram PNP NO



Special types and silicone free versions are available upon request

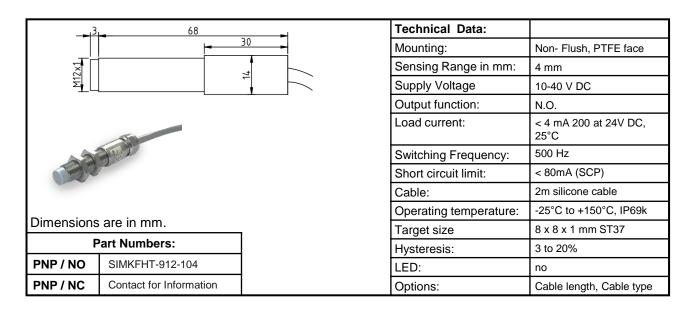
Design and technical details subject to change

**Locon Sensor Systems Inc.** P.O. Box 343, Perrysburg OH 43552

Telephone: 800-356-2661 E-Mail: sales@locon.net

Sensing Distance: 4mm – Housing Diameter: M12



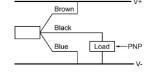


#### This sensor has the following specifications:

- \* 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 IP69k.
- \* 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: PTFE.

#### Wiring Diagram PNP NO



Special types and silicone free versions are available upon request

Design and technical details subject to change

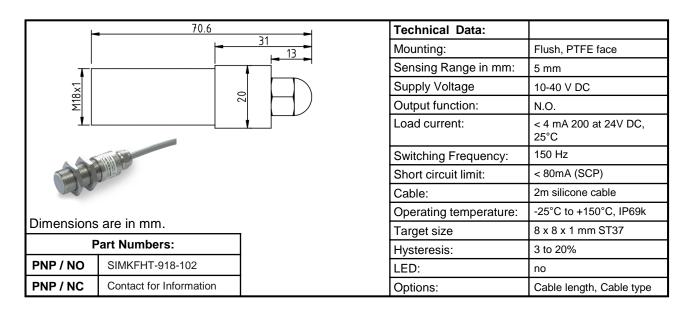
**Locon Sensor Systems Inc.** P.O. Box 343, Perrysburg OH 43552

Telephone: 800-356-2661 E-Mail: sales@locon.net

# **IP69k INDUCTIVE WASHDOWN SENSORS**

Sensing Distance: 5mm - Housing Diameter: M18



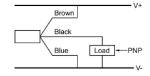


#### This sensor has the following specifications:

- \* 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 IP69k.
- \* Reverse polarity protection is incorporated on the supply voltage.
- $\ensuremath{^*}$  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: PTFE.

#### Wiring Diagram PNP NO



Special types and silicone free versions are available upon request

Design and technical details subject to change

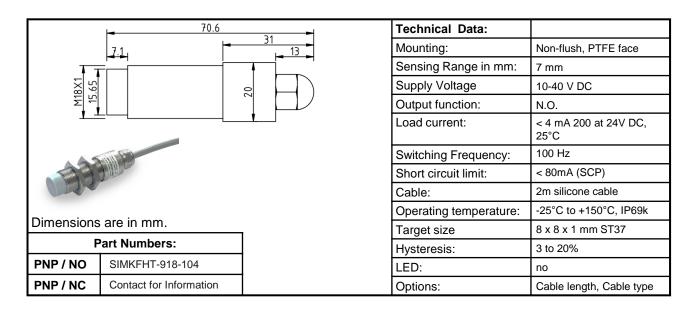
**Locon Sensor Systems Inc.** P.O. Box 343, Perrysburg OH 43552

Telephone: 800-356-2661 E-Mail: sales@locon.net

# **IP69k INDUCTIVE WASHDOWN SENSORS**

Sensing Distance: 7mm – Housing Diameter: M18



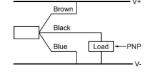


#### This sensor has the following specifications:

- \* 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
- \* 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 IP69k.
- \* 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: PTFE.

#### Wiring Diagram PNP NO



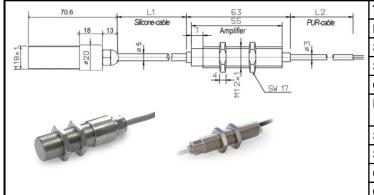
Special types and silicone free versions are available upon request

Design and technical details subject to change

Locon Sensor Systems Inc. P.O. Box 343, Perrysburg OH 43552 Telephone: 800-356-2661 E-Mail: sales@locon.net

Sensing Distance: 5mm – Housing Diameter: M18

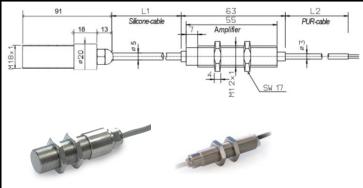




	Technical Data:		
	Mounting:	Flush, Ceramic face	
	Sensing Range in mm:	5 mm	
	Supply Voltage	10-35 V DC	
	Output function:	N.O.	
	Load current:	200 mA at 24V DC, 25°C	
	Switching Frequency:	200 Hz	
	Short circuit limit:	240 mA (SCP)	
	Cable:	L1: 2m Silicon, L2: 2m PUR	
	Operating temperature:	-20°C to +230°C, IP69k	
	Target size	8 x 8 x 1 mm ST37	
	Hysteresis:	3 to 20%	
	LED:	no	
	Options:	Cable length, Cable type	

# Dimensions are in mm.

Part Numbers:		
PNP / NO	IN5-18HTPS-230ext-IP69k	
NPN / NO	IN5-18HTNS-230ext-IP69k	



Dimensions	are	in	mm.	

rait Nullibers.					
PNP / NO	IN5-18HTPS-230ext-L91-IP69k-PEEK				
NPN / NO	IN5-18HTNS-230ext-L91-IP69k-PEEK				

Part Numbers

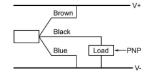
Technical Data:		
Mounting:	Flush, PEEK face	
Sensing Range in mm:	5 mm	
Supply Voltage	10-36 V DC	
Output function:	N.O.	
Load current:	200 mA at 20V DC, 25°C	
Switching Frequency:	200 Hz	
Short circuit limit:	240 mA (SCP)	
Cable:	L1: 3m Silicon, L2: 2m PUR	
Operating temperature:	-25°C to +230°C, IP69k	
Target size	8 x 8 x 1 mm ST37	
Hysteresis:	3 to 20%	
LED:	no	
Options:	Cable length, Cable type	

#### This sensor has the following specifications:

- 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, or as noted, all lengths are +/-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 IP69k.
- \* Reverse polarity protection is incorporated on the supply voltage.
- \* Load resistor of 100 kOhm is incorporated.
- \* Leakage current is 200 mA at 24 V supply voltage.
- \* Residual ripple is 15 %.
- $\ensuremath{^{*}}$  Voltage drop is approximately 2 V when sensor is on.
- \* Sensing face material is: Ceramic / PEEK.
- ${}^{st}$  Temperature specification for external amplifier:
- -13 °F to +140°F (-10 °C to 60 °C).

## Wiring Diagram PNP NO



Special types and silicone free versions are available upon request

# Brown Load Black NPN

Wiring Diagram NPN NO

Design and technical details subject to change

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**Locon Sensor Systems Inc.** P.O. Box 343, Perrysburg OH 43552

Telephone: 800-356-2661 E-Mail: sales@locon.net

# **IP69k INDUCTIVE HIGH PRESSURE SENSORS**

Sensing Distance: 5mm - Housing Diameter: M18



Flush, Ceramic face

200 mA at 24V DC, 25°C

L1: 2m Silicon, L2: 2m PUR -20°C to +230°C, <=**50** Bar

Cable length, Cable type

5 mm

N.O.

300 Hz

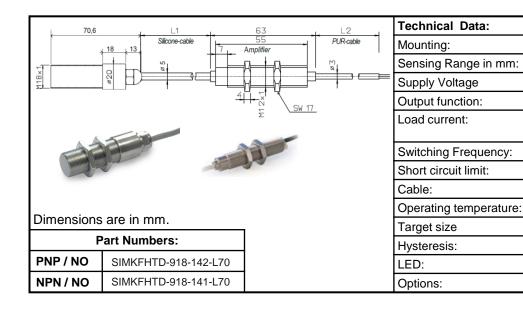
3 to 15%

no

240 mA (SCP)

8 x 8 x 1 mm ST37

10-35 V DC

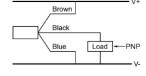


#### This sensor has the following specifications:

- \* 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 %.

- $\ensuremath{^{*}}$  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 IP69k.
- \* Reverse polarity protection is incorporated on the supply voltage.
- \* Load resistor of 100 kOhm is incorporated.
- \* Leakage current is 200 mA at 24 V supply voltage.
- \* Residual ripple is 15 %.
- $\ensuremath{^{*}}$  Voltage drop is approximately 2 V when sensor is on.
- \* Sensing face material is: Ceramic.
- \* Temperature specification for external amplifier:
- -13 °F to +140°F (-10 °C to 60 °C).

#### Wiring Diagram PNP NO



Special types and silicone free versions are available upon request

Design and technical details subject to change

Locon Sensor Systems Inc. P.O. Box 343, Perrysburg OH 43552

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