

WIRING DIAGRAM

BN +

N.O. BK LOAD

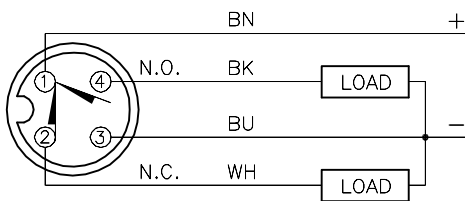
BU

N.C. WH LOAD

- -

OUTPUT: VP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED



OUTPUT: VP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN-M18

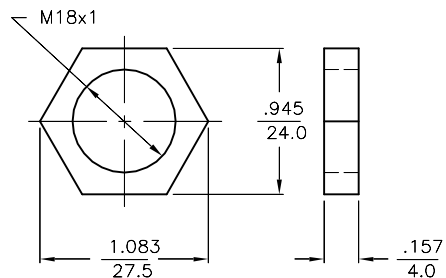
M18x1

Top View Dimensions:

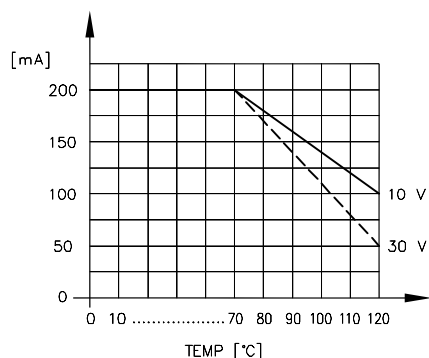
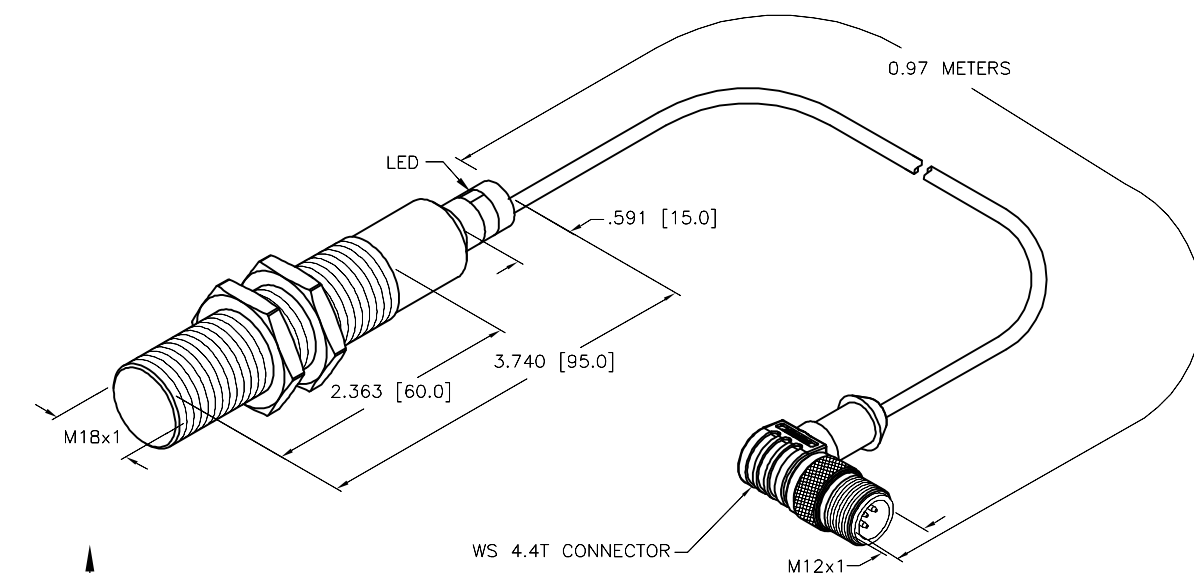
- Outer Hexagon Width: 1.083 (27.5)
- Inner Circle Diameter: .945 (24.0)

Side View Dimensions:

- Height: .157 (4.0)



SPECIFICATIONS	
RATED OPERATING DISTANCE	5mm [.197]
MOUNTING MODE	FLUSH
MIN. REPEAT ACCURACY	≤ 2%
TEMPERATURE DRIFT	≤ ± 10% ≤ ± 20%, ≥ ± 70°C
HYSTERESIS	3-15%
OPERATING TEMPERATURE	-25°C to +120°C (-13°F to +248°F)
RATED OPERATIONAL VOLTAGE	10-30 VDC
MAX. RIPPLE	≤ 10%
DC RATED OPERATIONAL CURRENT	≤ 200 mA
RATED OPERATIONAL CURRENT	SEE DERATING CURVE
NO-LOAD CURRENT	≤ 15 mA
RESIDUAL CURRENT	≤ 0.1 mA
RATED INSULATION VOLTAGE	≤ 0.5 kV
SHORT-CIRCUIT PROTECTION	YES
MAX. VOLTAGE DROP	≤ 1.8 V
WIRE BREAKAGE PROTECTION	INCORPORATED
REVERSE POLARITY PROTECTION	INCORPORATED
OUTPUT FUNCTION	4-WIRE, CHANGE-OVER, PNP
MAX. SWITCHING FREQUENCY	≤ 0.1 kHz
HOUSING MATERIAL	METAL, A4 1.4571 (AISI 316 Ti)
ACTIVE FACE MATERIAL	PLASTIC, PTFE
END CAP MATERIAL	PLASTIC, PTFE
CABLE	ø6.0, SIHSE, SILICONE
VIBRATION RESISTANCE	55 Hz (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP67 (SENSOR ONLY)
SWITCHING STATUS INDICATION	LED, YELLOW



1. "/S120" DESIGNATES SENSOR RATED TO A HIGH OPERATING TEMPERATURE OF +120°C (+248°F).

B	UPDATE DEGREE OF PROTECTION SPECIFICATION	KMY	06/27/13	42669
REV	DESCRIPTION	BY	DATE	ECO NO.

RELATED DOCUMENTS	3RD ANGLE PROJECTION			THIS DRAWING IS CONFIDENTIAL AND THE PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.		 TURCK INC <i>High Technology Sensors and Automation Controls</i>		3000 CAMPUS DRIVE MINNEAPOLIS, MN 55441 1-800-544-7769 (763) 553-7300 (763) 553-0708 fax turck.com	
	1. 2. 3. 4.								
MATERIAL	ALL DIMENSIONS DISPLAYED ON THIS DRAWING ARE FOR REFERENCE ONLY CONTACT TURCK FOR MORE INFORMATION	DRFT	RDS	DATE	03/12/12	DESCRIPTION BI 5-EM18D-VP6X-0.97M-WS 4.4T/S120			
		APVD	A.F.	SCALE	1=1.5				
FINISH		UNIT OF MEASUREMENT			IDENTIFICATION NO. M4614900-000				REV B
	INCH [MILLIMETER] DO NOT SCALE THIS DRAWING			FILE: M4614900-000					