



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	POLARITY PROTECTION INCORPORATED	
REVERSE POLARITY PROTECTION		
OUTPUT FUNCTION		
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, SIHSI, 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	

## SOURCE DRAWING - FOR REFERENCE ONLY

FINISH	CONTACT TURCK FOR MORE INFORMATION	INCH [ MILI
- Church	DRAWING ARE FOR REFERENCE ONLY	UNIT OF ME
	ALL DIMENSIONS DISPLAYED ON THIS	APVD A.F.
MATERIAL		DRFT RDS
1. 2. 3. 4.	⊕ ←	PROPERTY OF TURCK INC. USE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.
RELATED DOCUMENTS	3RD ANGLE PROJECTION	THIS DRAWING IS CONFIDENTIAL AND THE

3000 CAMPUS DRIVE MINNEAPOLIS, MN 55441 1-800-544-7769 (763) 553-7300 (763) 553-0708 fax www.turck.us

DATE 03/12/12 DESCRIPTION DRFT RDS SCALE 1=1.5 A.F.

BI5-EM18D-VP6X-2-WS4.4T/S120

UNIT OF MEASUREMENT

INCH [ MILLIMETER ]

IDENTIFICATION NO.

REV 46149001 FILE: 46149001

UPDATE COUPLING NUT RDS 04/19/18 56903 REV DESCRIPTION DATE ECO NO.

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

10 V

30 V

0 10 ......70 80 90 100 110 120

TEMP [°C]

100

50

NOTES:

(+248°F).

DO NOT SCALE THIS DRAWING

SHEET 1 OF 1