

WIRING DIAGRAM

BN
BK
BU

LOAD

OUTPUT: AP6

SHORT-CIRCUIT AND OVERLOAD PROTECTED

LOCKNUT LN-M12

M12x1

.768
19.5

.669
17.0

.157
4.0

SPECIFICATIONS

RATED OPERATING DISTANCE	2mm = .079"
MOUNTING MODE	FLUSH
TEMPERATURE DRIFT	≤ ±10% ≤ ±20%, ≥ +70°C
HYSTERESIS	3-15%
MIN. REPEAT ACCURACY	≤ 2%
OPERATING TEMPERATURE	-25°C to +120°C (-13°F to +248°F)
RATED OPERATIONAL VOLTAGE	10-30 VDC
RESIDUAL RIPPLE	≤ 10%
DC RATED OPERATIONAL CURRENT	≤ 200 mA
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	3-WIRE, NORMALLY OPEN, PNP
MAX. SWITCHING FREQUENCY	≤ 0.1 kHz
HOUSING MATERIAL	METAL, V4A (1.4571)
ACTIVE FACE	PLASTIC, PTFE
END CAP	PLASTIC, PTFE
CABLE	ø6.0, SIHSL, SILICONE
VIBRATION RESISTANCE	55 Hz (IN ALL 3 PLANES)
SHOCK RESISTANCE	30 g, 11 ms
DEGREE OF PROTECTION	IP67 (SENSOR ONLY)

0.98 METERS

.433 [11.0]

2.480 [63.0]

1.378 [35.0]

M12x1

WS 4T CONNECTOR

M12x1

[mA]

TEMP [°C]

10 V

30 V

NOTES:
1. "/S120" DESIGNATES HIGH RATED OPERATING TEMPERATURE RATING OF +120°C (+248°F).

SOURCE DRAWING - FOR REFERENCE ONLY

RELATED DOCUMENTS

3RD ANGLE PROJECTION

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TURCK

DATE 02/02/12
SCALE 1=1.0

DESCRIPTION
BI2-EM12D-AP6-0.98-WS4T/S120

IDENTIFICATION NO.
46145120

REV
E

UNIT OF MEASUREMENT
INCH [MILLIMETER]

DO NOT SCALE THIS DRAWING

FILE: 46145120

SHEET 1 OF 1

1. UPDATE COUPLING NUT

RDS 04/19/18 56903

REV DESCRIPTION

BY DATE ECO NO.