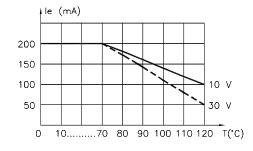


RATED OPERATING DISTANCE MOUNTING MODE FLUSH MIN. REPEAT ACCURACY TEMPERATURE DRIFT S±10% HYSTERESIS OPERATING TEMPERATURE RATED OPERATIONAL VOLTAGE DC RATED OPERATIONAL CURRENT NO-LOAD CURRENT RESIDUAL CURRENT RATED INSULATION VOLTAGE MAX. VOLTAGE DROP MAX. VOLTAGE DROP S=1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE END CAP CABLE VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION FLUSH FLUSH S±10% 10-30 VDC	SPECIFICATIONS			
$\begin{array}{llllllllllllllllllllllllllllllllllll$	RATED OPERATING DISTANCE	5mm [.197]		
TEMPERATURE DRIFT ≤±10% HYSTERESIS OPERATING TEMPERATURE -25°C to +120°C (-13°F to +248°F) RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE ≤ 10% DC RATED OPERATIONAL CURRENT S=15 mA RESIDUAL CURRENT RATED INSULATION VOLTAGE MAX. VOLTAGE DROP WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE END CAP PLASTIC, LCP-GF30 END CAP VIBRATION RESISTANCE SHOCK RESISTANCE S=1.8 V SHORT-CIRCUIT S=1.8 V MIRE DROP S=1.8 V MIRE DROP S=1.8 V MIRE DROP S=1.8 V MAX. SWITCHING FREQUENCY S=1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE S=06.0, SIHSI, SILICONE VIBRATION RESISTANCE S=07 (IN ALL 3 PLANES) SHOCK RESISTANCE DEGREE OF PROTECTION IP67 (SENSOR ONLY)	MOUNTING MODE	FLUSH		
HYSTERESIS OPERATING TEMPERATURE -25°C to +120°C (-13°F to +248°F) RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE □ C RATED OPERATIONAL CURRENT □ C RATED OPERATIONAL CURRENT □ C RATED OPERATIONAL CURRENT □ C RATED INSULATION VOLTAGE □ C SOLT MA RESIDUAL CURRENT RATED INSULATION VOLTAGE □ SOLT MA RATED INSULATION VOLTAGE □ SOLT MA WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION □ SOLT MAX. SWITCHING FREQUENCY □ SOLT MAX. SWITCHING □ SOLT MAX. SOLT MAX. SWITCHING □ SOLT MAX. SWITCHING □ SOLT MAX. SWITCHING	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 RESIDUAL CURRENT RESIDUAL CURRENT S 0.1 mA RATED INSULATION VOLTAGE SHORT−CIRCUIT PROTECTION WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. VOLTAGE OUTPUT FUNCTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE END CAP PLASTIC, LCP−GF30 END CAP VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION INCORPORATED OUTPUT ALL 3 PLANES) SHOCK RESISTANCE JO 9, 11 ms DEGREE OF PROTECTION IP67 (SENSOR ONLY)	TEMPERATURE DRIFT	≤±10%		
RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE □ 10% □ C RATED OPERATIONAL CURRENT □ 200 mA NO-LOAD CURRENT □ 15 mA RESIDUAL CURRENT □ 20.1 mA RATED INSULATION VOLTAGE □ 30.5 kV SHORT-CIRCUIT PROTECTION MAX. VOLTAGE DROP □ 1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL □ BRASS, CHROME PLATED ACTIVE FACE □ PLASTIC, LCP-GF30 END CAP VIBRATION RESISTANCE VIBRATION RESISTANCE VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION INCORPORATED ACTIVE FACE PLASTIC, LCP-GF30 END CAP VIBRATION RESISTANCE SHOCK RESISTANCE JO 9, 11 ms DEGREE OF PROTECTION IP67 (SENSOR ONLY)	HYSTERESIS	3-15%		
RESIDUAL RIPPLE DC RATED OPERATIONAL CURRENT \$ \(\) \(\	OPERATING TEMPERATURE	-25°C to +120°C (-13°F to +248°F)		
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 ≤ 1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR 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)	RATED OPERATIONAL VOLTAGE	10-30 VDC		
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 ≤ 1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR 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)	RESIDUAL RIPPLE	≤ 10%		
RESIDUAL CURRENT RATED INSULATION VOLTAGE SHORT—CIRCUIT PROTECTION MAX. VOLTAGE DROP SILS V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE END CAP CABLE VIBRATION RESISTANCE DEGREE OF PROTECTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION VES SILS V INCORPORATED INCORPORATED INCORPORATED SOLUTION SOLUTION INCORPORATED SOLUTION INCORPORATED INCORPORATED SOLUTION INCORPORATED SOLUTION INCORPORATED INCORPORATED INCORPORATED INCORPORATED INCORPORATED INCORPORATED INCORPORATED INCORPORATED SOLUTION INCORPORATED INCOR	DC RATED OPERATIONAL CURRENT	≤ 200 mA		
RATED INSULATION VOLTAGE SHORT—CIRCUIT PROTECTION MAX. VOLTAGE DROP ≤ 1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION OUTPUT FUNCTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE END CAP CABLE VIBRATION RESISTANCE DEGREE OF PROTECTION YES LICATOR VYES INCORPORATED INCORPORATED INCORPORATED SHOCK RESISTANCE S 1.5 kHz BRASS, CHROME PLATED PLASTIC, LCP—GF30 PLASTIC, EPTR G6.0, SIHSI, SILICONE VIBRATION RESISTANCE JO 9, 11 ms DEGREE OF PROTECTION IP67 (SENSOR ONLY)	NO-LOAD CURRENT	≤ 15 mA		
SHORT—CIRCUIT PROTECTION MAX. VOLTAGE DROP ✓ 1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION OUTPUT FUNCTION MAX. SWITCHING FREQUENCY ✓ 1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE END CAP PLASTIC, LCP—GF30 END CAP PLASTIC, EPTR CABLE Ø 6.0, SIHSI, SILICONE VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION YES INCORPORATED ACTIVE FACE PLASTIC, LCP—GF30 END CAP PLASTIC, EPTR Ø 6.0, SIHSI, SILICONE VIBRATION RESISTANCE JO 9, 11 ms DEGREE OF PROTECTION IP67 (SENSOR ONLY)	RESIDUAL CURRENT	≤ 0.1 mA		
MAX. VOLTAGE DROP ≤ 1.8 V WIRE BREAKAGE PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY OPEN, PNP MAX. SWITCHING FREQUENCY ≤ 1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR 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)	RATED INSULATION VOLTAGE	≤ 0.5 kV		
WIRE BREAKAGE PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY OPEN, PNP MAX. SWITCHING FREQUENCY ≤ 1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR 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)	SHORT-CIRCUIT PROTECTION	YES		
REVERSE POLARITY PROTECTION OUTPUT FUNCTION 3 - WIRE, NORMALLY OPEN, PNP MAX. SWITCHING FREQUENCY ≤ 1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR CABLE Ø6.0, SIHSI, SILICONE VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE DEGREE OF PROTECTION IP67 (SENSOR ONLY)	MAX. VOLTAGE DROP	≤ 1.8 V		
OUTPUT FUNCTION 3-WIRE, NORMALLY OPEN, PNP MAX. SWITCHING FREQUENCY ≤ 1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR 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)	WIRE BREAKAGE PROTECTION	INCORPORATED		
MAX. SWITCHING FREQUENCY ≤ 1.5 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR 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)	REVERSE POLARITY PROTECTION	INCORPORATED		
HOUSING MATERIAL ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR CABLE Ø6.0, SIHSI, SILICONE VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION BRASS, CHROME PLATED Ø6.0, SIHSI, SILICONE VIBRATION ALL 3 PLANES) SHOCK RESISTANCE JO 9, 11 ms DEGREE OF PROTECTION IP67 (SENSOR ONLY)	OUTPUT FUNCTION	3-WIRE, NORMALLY OPEN, PNP		
ACTIVE FACE PLASTIC, LCP-GF30 END CAP PLASTIC, EPTR CABLE Ø6.0, SIHSI, SILICONE VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE DEGREE OF PROTECTION IP67 (SENSOR ONLY)	MAX. SWITCHING FREQUENCY	≤ 1.5 kHz		
END CAP PLASTIC, EPTR 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)	HOUSING MATERIAL	BRASS, CHROME PLATED		
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)	ACTIVE FACE	PLASTIC, LCP-GF30		
VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP67 (SENSOR ONLY)	END CAP	PLASTIC, EPTR		
SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP67 (SENSOR ONLY)	CABLE	ø6.0, SIHSI, SILICONE		
DEGREE OF PROTECTION IP67 (SENSOR ONLY)	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	SWITCHING STATUS INDICATION	LED, YELLOW		



NOTES:

1. "/S120" DESIGNATES SENSOR WILL OPERATE UP TO 120°C (248°F).

Е	UPDATE DESCRIPTION	RDS	08/28/20	76128
REV	DESCRIPTION	BY	DATE	ECO NO.

RELATED DOCUMENTS	3RD ANGLE PROJECTION	THIS DRAWING IS	
1.		PROPERTY OF TURCK	
3. 4.		DOCUMENT WITHOUT WRITTEN PERMISSION IS PROHIBITED.	
MATERIAL		DRFT RDS	
	ALL DIMENSIONS DISPLAYED ON THIS	APVD	
	DRAWING ARE FOR REFERENCE ONLY	UNIT OF ME	
FINISH	CONTACT TURCK FOR MORE INFORMATION	INCH [MILI	
		DO NOT SCALE	

3000 CAMPUS DRIVE

SOURCE DRAWING - FOR REFERENCE ONLY

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

DATE 10/02/03 DESCRIPTION RDS BI5-M18-AP6X-1-RS4T/S120 SCALE 1=1.5

UNIT OF MEASUREMENT

INCH [MILLIMETER]

DO NOT SCALE THIS DRAWING

IDENTIFICATION NO. REV 4611097 FILE: 4611097 SHEET 1 OF 1