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LOC		DIST		REVISIONS			
P	LTR	DESCRIPTION		DATE	DWN	APVD	
B		ECO-06-000585		14AUG06	BSV	MZ	

SPECIFICATIONS:

MATERIALS:

CASE: HIGH TEMPERATURE POLYESTER, UL 94V-0.
 ACTUATOR BUTTON: POLYAMIDE, COLOR: SEE CHART BELOW.
 HEXNUT: STAINLESS STEEL.
 WASHER: STAINLESS STEEL.
 MOVING CONTACT: COPPER ALLOY, TIN/LEAD PLATE.
 FIXED CONTACT/TERMINAL: COPPER ALLOY, TIN/LEAD PLATE.
 TERMINAL SEAL: OPTIONAL.

ELECTRICAL:

CONTACT RATING: 0.4 VA MAX. @ 20 VDC OR PEAK AC.
 INITIAL CONTACT RESISTANCE: 20 MILLIOHMS MAX.
 INSULATION RESISTANCE: 1,000 MEGOHMS @ 500 VDC MIN.
 DIELECTRIC STRENGTH: 1,000 VOLTS RMS @ SEA LEVEL.
 LIFE EXPECTANCY: 80,000 CYCLES.

MECHANICAL:

ACTION FORCE: 50 TO 400 GRAMS.
 ACTION TRAVEL: .030 APPROX.

ENVIRONMENTAL:

OPERATING TEMPERATURE: -22°F TO +149°F (-30°C TO +65°C).
 STORAGE TEMPERATURE: -22°F TO +149°F (-30°C TO +65°C).

NOTES:

1. INTERPRET DRAWING PER ANSI Y14.5M-1982.

Technical drawing showing front, side, and top views of a pushbutton switch. Dimensions include: .100 TO FLAT (top view), .100 (top view), .020 DP.X .040 W KEYWAY (top view), .020 TYP (top view), .130 (side view), .160 (side view), .310 (side view), .340 (side view), .130 (side view), .380 (side view), .130 (side view), .140 (side view), .200 (side view), .100 (side view), .030 TYP. (side view), .320 (top view), .360 (top view), 1 2 3 (top view), 4 5 6 (top view).

Recommended hole layout diagram showing a 3x3 grid of holes. Dimensions include: $\phi .043$ 8X (hole diameter), .100 TYP. (pitch), .200 (width), .100 (width).

RECOMMENDED HOLE LAYOUT
 TOLERANCE $\pm .002$ UNLESS OTHERWISE NOTED

TPF21MG RA (*)	DPST	NONE	(1-3), (4-6)
TPF21RG RA (*)	DPDT	1-2, 4-5	(2-3), (5-6)
MODEL NO	TYPE		

TERMINALS CONNECTED WHEN PLUNGER IS IN POSITION SHOWN

TERMINAL DESIGNATION NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON SWITCHES

() INDICATES MOMENTARY.

NO CENTER TERMINAL ON "M" ACTION SWITCH

(*)—SPECIFY COLOR.
 0=BLACK
 2=RED
 6=BLUE.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	23SEP96	tyco Tyco Electronics Corporation	
DIMENSIONS: INCHES		CHK	S.KIRCORIAN	Harrisburg, Pa 17105-3608	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	—	NAME	
0 PLC \pm —		PRODUCT SPEC	—	PUSHBUTTON SWITCH (TPF21 RA(*) SERIES)	
1 PLC \pm —		APPLICATION SPEC	—	SIZE	RESTRICTED TO
2 PLC \pm —		FINISH	—	CAGE CODE	DRAWING NO
3 PLC \pm .010		WEIGHT	—	A2 00779	C=8-1437572-9
4 PLC \pm —		CUSTOMER DRAWING	SCALE	4:1	SHEET 1 OF 1
ANGLES \pm 1°					REV B

8-1437572-9

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