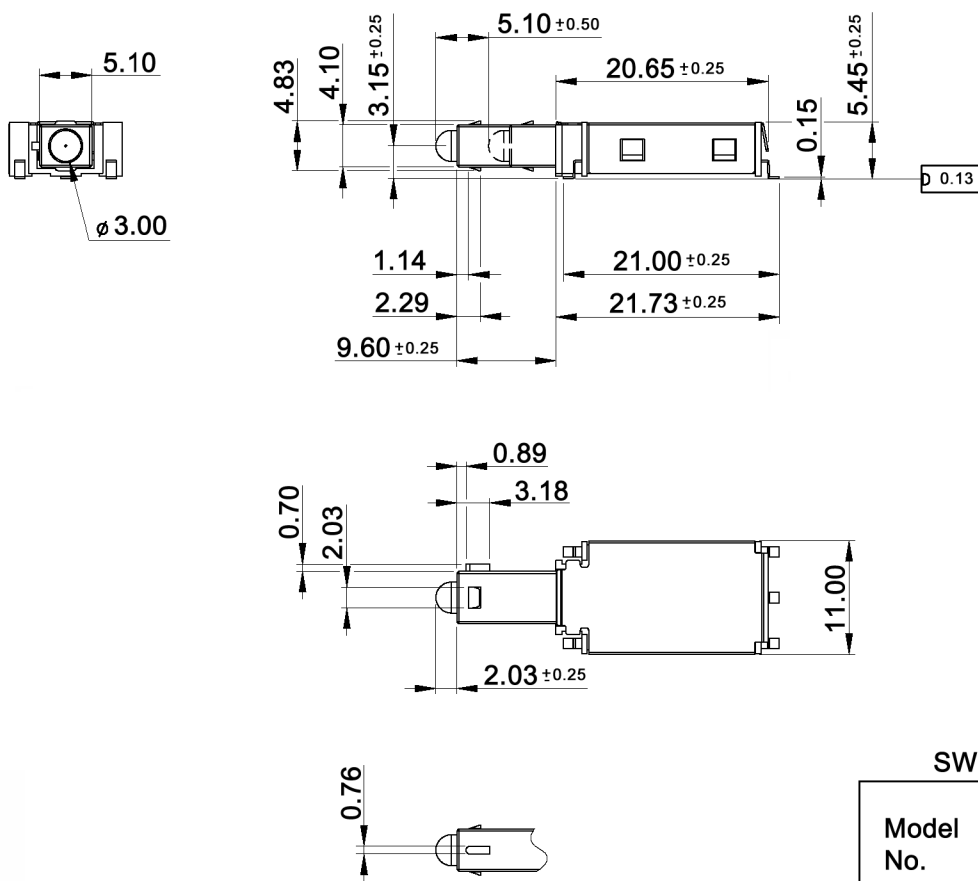
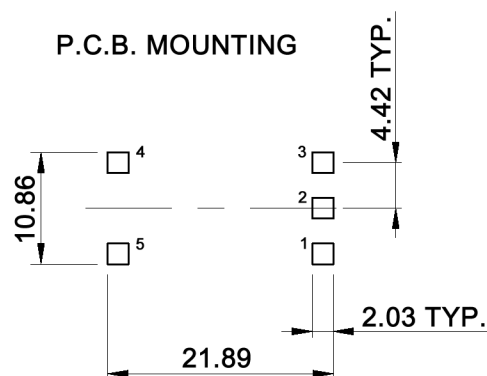




SWITCH FUNCTION

Model No.	POS. 1	POS. 2
MPLS 12	ON	ON
Term. Conn.	3-4	2-3
LED		

P.C.B. MOUNTING



x	Switch function	y	LED color
D	on - on	w	white
F	on - mom	y	yellow
		r	red
		g	green
		b	blue
		ag	amber / green
		rg	red / green

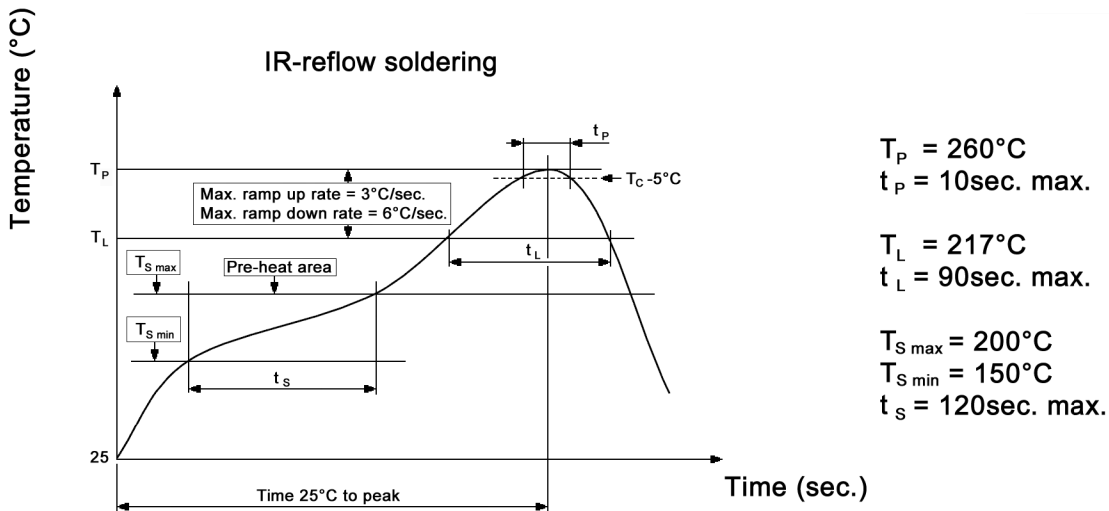


Tolerances: 0.00: ±0.13mm 0.0: ±0.40mm			Date	Name	MPLS 12 xy				
			12/08	dr					
Force travel diagram	10/11	dr			30 16 81				
LED colors	08/11	dr	knitter-switch					Page	
Soldering conditions	09/10	dr							
LED color	06/09	dr							
Modifications	Date	Name			1/3				

Specifications:

Contact rating:	min. 20mV, max. 50V DC
Switching current:	min. 0.01mA, max. 250mA
Switching power:	max. 3.5VA
Contact resistance:	50mOhm max. at 2-4V DC, 100mA
Insulation resistance:	1 000MOhm min.
Dielectric strength:	250V RMS
Operating temperature:	-30°C to +85°C
Mechanical life:	30 000 make-and-break cycles
Operating force:	250 +/-100gf
Material:	Case / actuator: glass filled LCP (UL94V-0)
	Housing: stainless steel
	Contact / terminal: copper alloy, silver plated with gold flash

Soldering conditions:



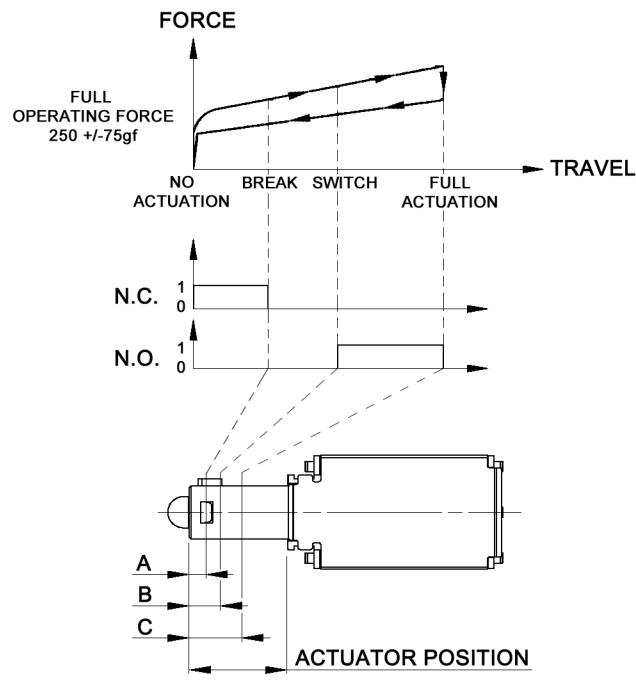
LED CHARACTERISTICS:

Lens Appearance	Color		Electro-optical Data(AT 20mA)				Peak wavelength	Viewing Angle 2Θ 1/2 (deg)
			Vf (V)		Iv (mcd)			
			Typ.	Max.	Min..	Typ.		
Water Clear	White		3.3	3.8	4900	10000	——	30°
	Red		2.35	2.8	1	3	630	50°
	Yellow		2.1	2.6	20	35	588	65°
	Green		2.2	2.6	50	60	570	60°
	Blue		3.5	3.8	210	550	470	75°
	Amber (Green)	A	2.1	2.5	19	28	588	55°
		G	2.2	2.6	9	19	570	50°
	Red (Green)	R	2.35	2.8	——	1	630	
		G	2.2	2.6	6	13	570	



Tolerances: 0.00: ±0.13mm 0.0: ±0.40mm			Date	Name	MPLS 12 xy		
			09/10	dr			
			knitter-switch			30 16 81	
Modifications	Date	Name					Page 2/3

FORCE AND TRAVEL DIAGRAM:



ACTUATOR POSITION

A	BREAK	1.0 +/-0.5mm
B	SWITCH	1.75 +/-0.5mm
C	FULL ACTUATION	5.15 +/-0.5mm



Tolerances: 0.00: ±0.13mm 0.0: ±0.40mm			Date	Name	MPLS 12 xy	
			10/11	dr		
					knitter-switch	30 16 81
Modifications	Date	Name				Page 3/3