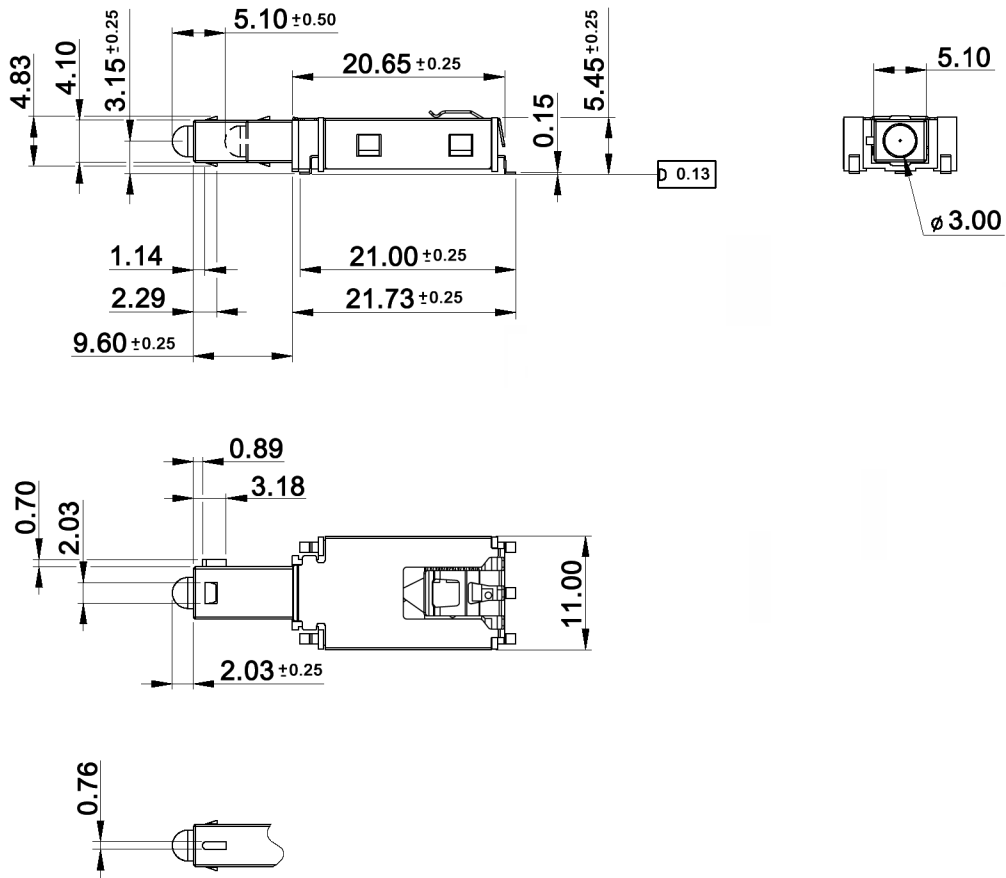


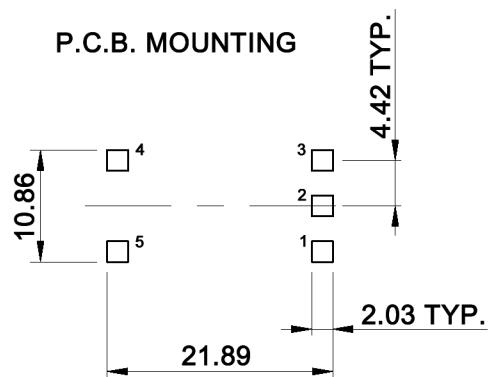
MPLS 12 Dy:



SWITCH FUNCTION

Model No.	POS. 1	POS. 2
	MPLS 12	ON
Term. Conn.	3-4	2-3
LED	5 → 1	

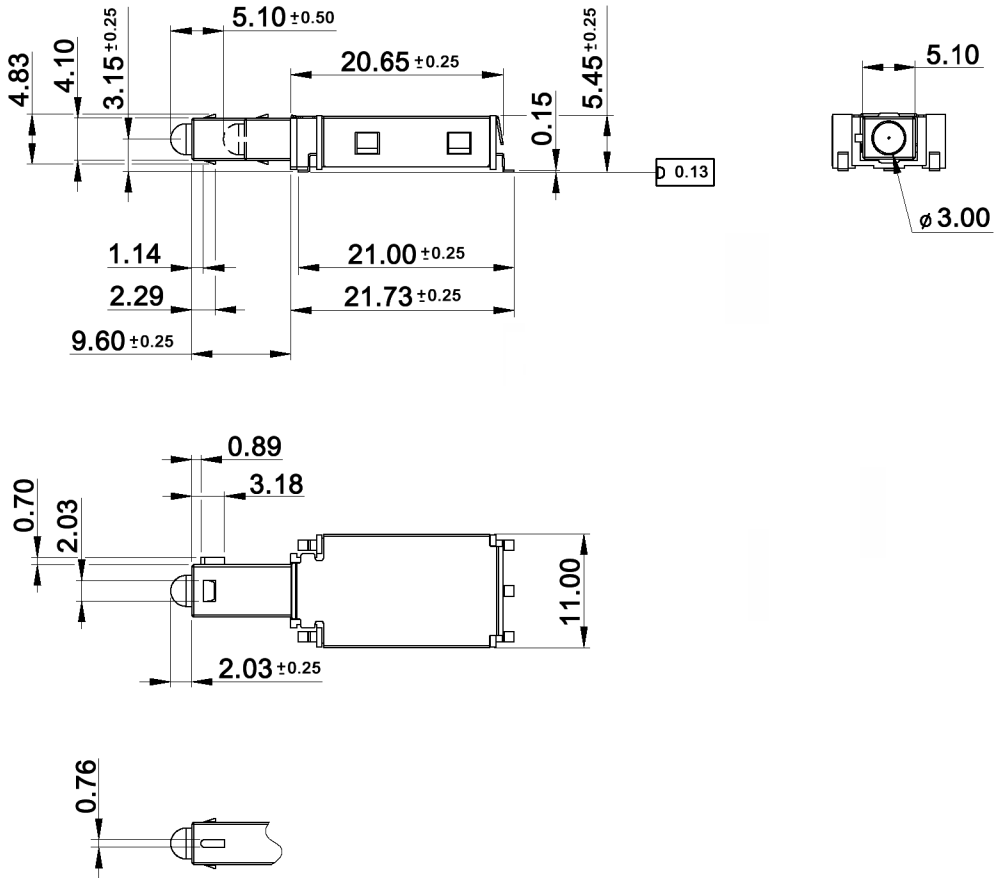
P.C.B. MOUNTING



Compliance: RohS III (2015/863/EU)

Tolerances: 0.00: ±0.13mm 0.0: ±0.40mm		Date	Name	<h1>MPLS 12 xy</h1>
		12/08	dr	
Revised	10/22	dr		
Force travel diagram	10/11	dr		
LED colors	08/11	dr	<h2>30 16 81</h2>	Page
Soldering conditions	09/10	dr		1/4
LED color	06/09	dr	<b>knitter-switch</b>	
Modifications	Date	Name		

MPLS 12 Fy:



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

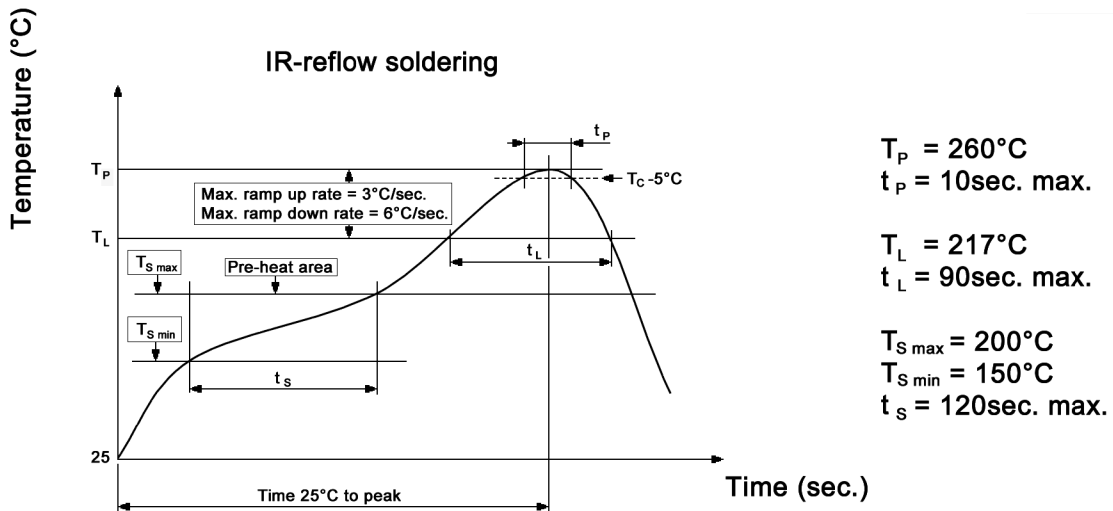
Compliance: RohS III (2015/863/EU)

Tolerances: 0.00: $\pm 0.13$ mm 0.0: $\pm 0.40$ mm		Date	Name	<h1>MPLS 12 xy</h1>
		12/08	dr	
Revised	10/22	dr		
Force travel diagram	10/11	dr		
LED colors	08/11	dr		<h2>30 16 81</h2>
Soldering conditions	09/10	dr		
LED color	06/09	dr		Page
Modifications	Date	Name		2/4

**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:**



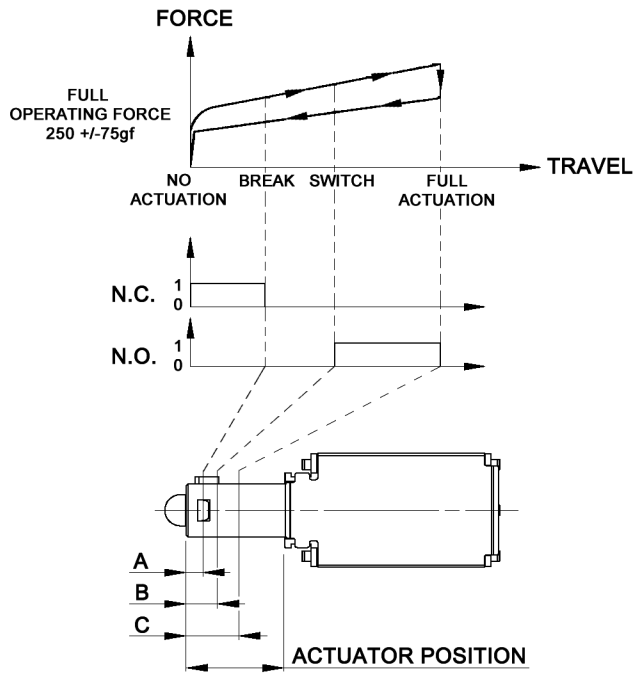
**LED CHARACTERISTICS:**

Lens Appearance	Color	Electro-optical Data(AT 20mA)				Peak wavelength	Viewing Angle $2\theta$ 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		

**Compliance: RohS III (2015/863/EU)**

Tolerances: 0.00: ±0.13mm 0.0: ±0.40mm		Date	Name	<h1>MPLS 12 xy</h1>
		12/08	dr	
Revised	10/22	dr		
Force travel diagram	10/11	dr		
LED colors	08/11	dr		
Soldering conditions	09/10	dr	<b>knitter-switch</b>	<h1>30 16 81</h1>
LED color	06/09	dr		
Modifications	Date	Name		

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

Compliance: RohS III (2015/863/EU)

Tolerances: 0.00: ±0.13mm 0.0: ±0.40mm		Date	Name	<h1>MPLS 12 xy</h1>
		12/08	dr	
Revised	10/22	dr		
Force travel diagram	10/11	dr		
LED colors	08/11	dr	<h2>30 16 81</h2>	Page
Soldering conditions	09/10	dr		4/4
LED color	06/09	dr	<b>knitter-switch</b>	
Modifications	Date	Name		