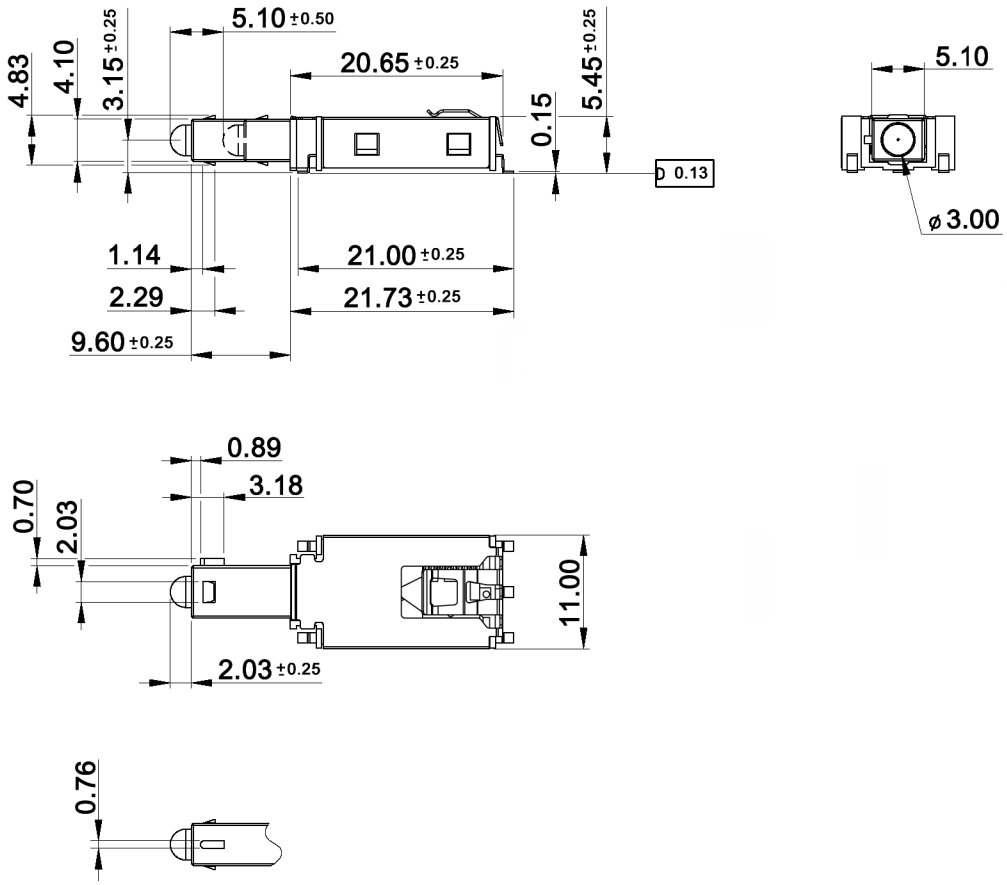
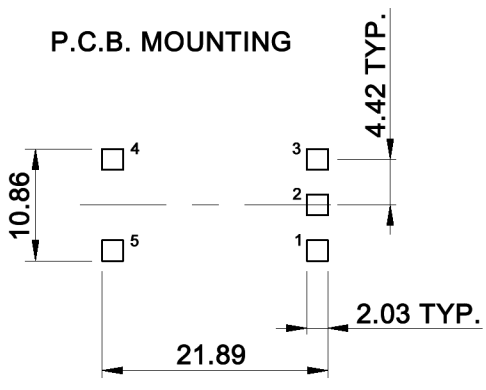
MPLS 12 Dy:



SWITCH FUNCTION

Model No.	POS. 1	POS. 2
MPLS 12	ON	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
			12/08	dr
Revised	10/22	dr		
Force travel diagram	10/11	dr		
LED colors	08/11	dr		
Soldering conditions	09/10	dr		
LED color	06/09	dr		
Modifications	Date	Name		

MPLS 12 xy

knitter-switch

30 16 81

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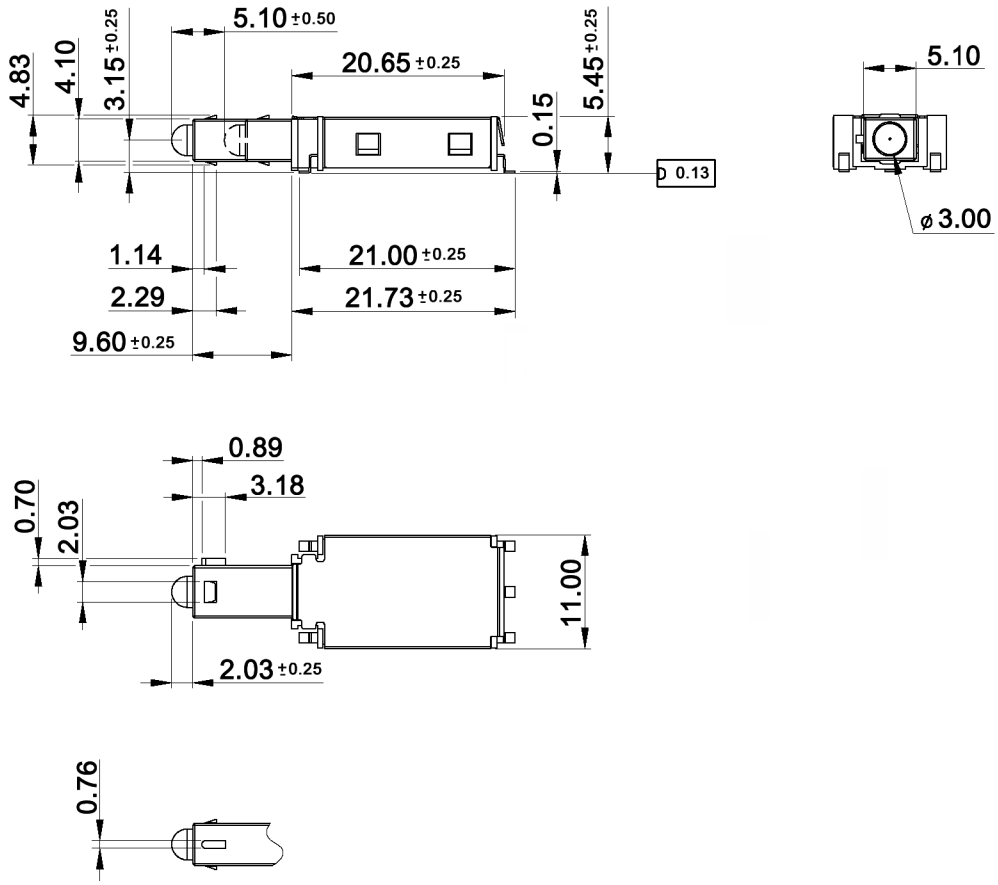
MPLS 12 Fy:



x	Switch function
D	on - on
F	on - mom

y	LED color
W	white
Y	yellow
R	red
G	green
B	blue
AG	amber / green
RG	red / green

Compliance: RohS III (2015/863/EU)

Tolerances: 0.00: ±0.13mm 0.0: ±0.40mm			Date	Name	MPLS 12 xy	
			12/08	dr		
Revised	10/22	dr				
Force travel diagram	10/11	dr				
LED colors	08/11	dr	knitter-switch		30 16 81	Page
Soldering conditions	09/10	dr				2/4
LED color	06/09	dr				
Modifications	Date	Name				

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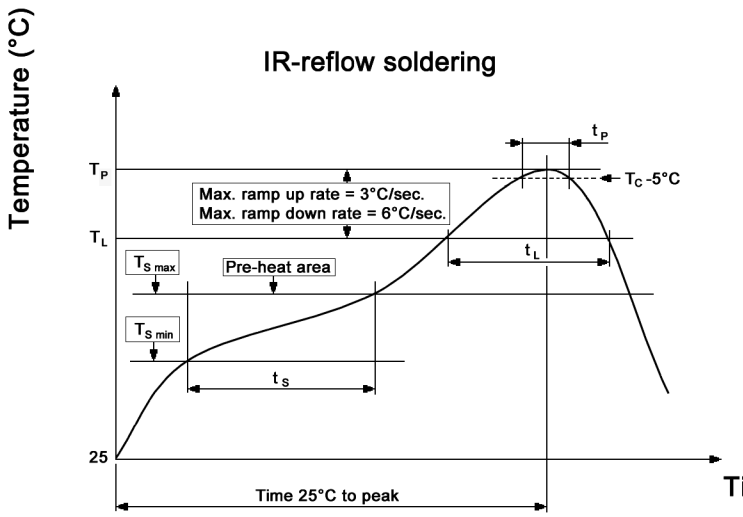
Specifications:

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:

IR-reflow soldering



T_P = 260°C
t_P = 10sec. max.

T_L = 217°C
t_L = 90sec. max.

$T_{S\,max}$ = 200°C
$T_{S\,min}$ = 150°C
t_S = 120sec. max.

LED CHARACTERISTICS:

Lens Appearance	Color		Electro-optical Data(AT 20mA) Vf (V) Typ.	Vf (V) Max.	Iv (mcd) Min..	Iv (mcd) Typ.	Peak wavelength	Viewing Angle 2Θ 1/2 (deg)
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 12/08	Name dr	MPLS 12 xy
Revised	10/22	dr			
Force travel diagram	10/11	dr			
LED colors	08/11	dr	knitter-switch	30 16 81	Page 3/4
Soldering conditions	09/10	dr			
LED color	06/09	dr			
Modifications	Date	Name			

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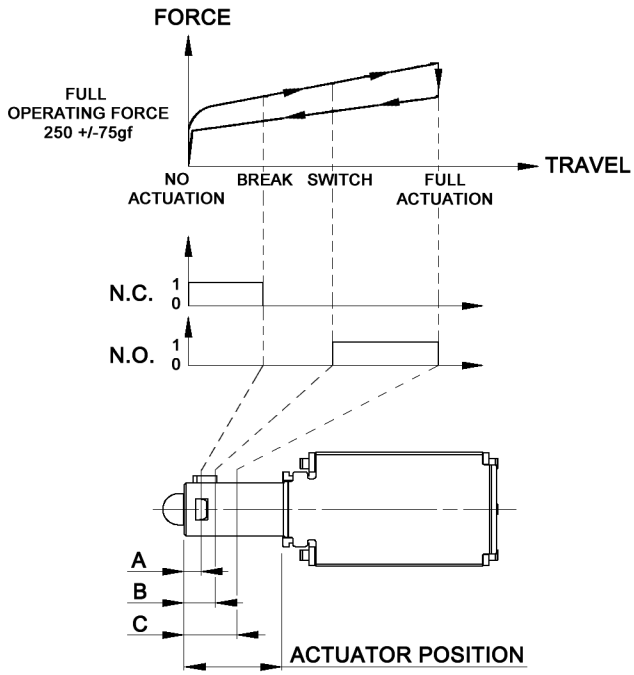
FORCE AND TRAVEL DIAGRAM:



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 12/08	Name dr	MPLS 12 xy
Revised	10/22	dr			
Force travel diagram	10/11	dr			
LED colors	08/11	dr	knitter-switch	30 16 81	Page 4/4
Soldering conditions	09/10	dr			
LED color	06/09	dr			
Modifications	Date	Name			

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