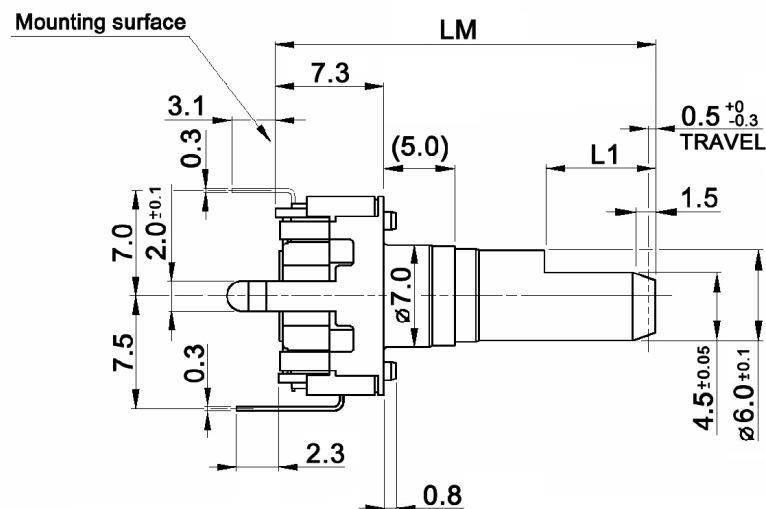
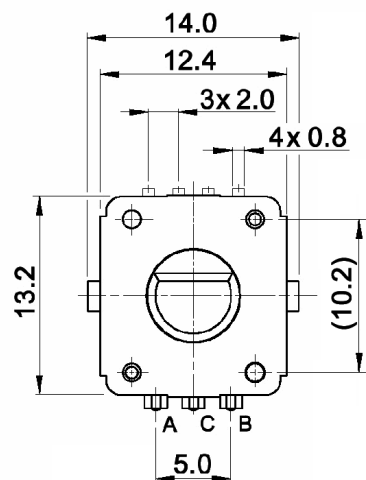
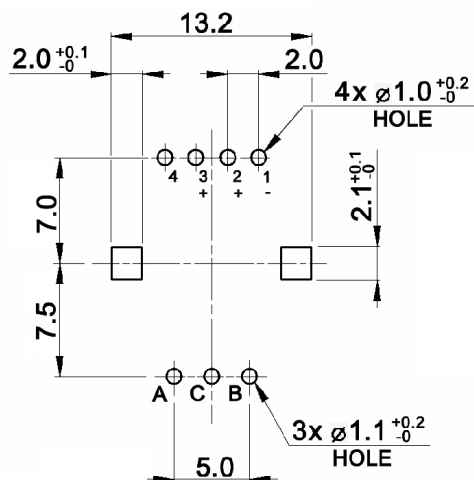




OUTPUT SIGNAL FORMAT

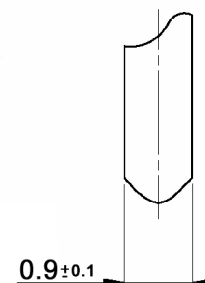
Shaft rotational direction	Signal	Output
C.W.	Terminal A-C	OFF ON
	Terminal B-C	OFF ON
C.C.W.	Terminal A-C	OFF ON
	Terminal B-C	OFF ON

P.C.B. MOUNTING (TOLERANCE ±0.1) VIEWED FROM MOUNTING SIDE t=1.4mm



h	LM	L1
18.5	18.8	5.0
21	21.3	7.0
26	26.3	12.0
31	31.3	12.0

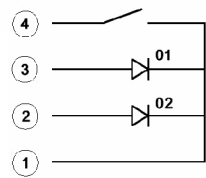
TERMINAL DETAIL



Compliance: RohS III (2015/863/EU)

Tolerances: ≤10: ±0.3mm 10-100: ±0.5mm			Date	Name	MERP12-12P1hxx	
			11/08	dr		
Case height	06/22	dr				
Rename	07/14	dr				
Output signal format	04/11	dr	knitter-switch		30 16 52	Page
Dimensions	10/09	dr				1/2
LED colors	07/09	dr				
Modifications	Date	Name				

CIRCUIT DIAGRAM



"xx"	LED color	
	01	02
OB	orange	blue
BG	green	blue
GR	red	green

LED color	Power dissipation (mW)	DC Forward current (mA)	Peak forward current (mA)	Item IF=20mA	Typ (V)	Max. (V)
red	170	30	185	forward voltage	1.95	2.5
orange	75	30	195	forward voltage	2.1	2.5
blue	105	30	150	forward voltage	3.3	4.0
green	105	25	130	forward voltage	3.1	3.8

Specifications:

Contact rating: 10mA, 5V DC (1mA min.)
Contact resistance: 100mOhm max.
Insulation resistance: 100MOhm min. at 250V DC / 1mA
Dielectric strength: 300V AC for 1 minute
Operating temperature: -40°C to +85°C
Resolution: 12 pulses / 360° for each phase
Rotational life: 30 000 cycles
Detent torque: 3-200 gf.cm
No. of detents: 12 detents; step angle: 30° +/-3°
Soldering conditions: 260 +/-5°C, 3 +/-1.0sec.
Switch: Travel: 0.5⁺⁰_{-0.3} mm
Mechanical life: 20 000 cycles
Operating force: 4.5 +/-2 N

Compliance: RohS III (2015/863/EU)

Tolerances: ≤10: ±0.3mm 10-100: ±0.5mm		Date	Name	MERP12-12P1hxx		
		11/08	dr			
Case height	06/22	dr		knitter-switch		
Rename	07/14	dr				
Output signal format	04/11	dr		30 16 52		Page
Dimensions	10/09	dr				2/2
LED colors	07/09	dr				
Modifications	Date	Name				