





Neon / LED Illuminated Round Rocker

- Wide variety of applications from industrial to consumer products
- Single pole single throw with neon lamp and LED options
- Quick connect termination
- Full or dot illumination
- · Numerous choices in illumination colors and markings

Specifications

Switch Function	SPST
Electrical Ratings	UL 61058-1
	15A @ 125VAC General Purpose
	10A @ 250VAC General Purpose
Electrical Life	10,000 cycles typical

Contact Resistance	$\leq 50 m\Omega$ initial
Dielectric Strength	1500Vrms min
Insulation Resistance	$\geq 100 M\Omega$ min
Operating Temperature	-20°C to 70°C
Storage Temperature	-20°C to 70°C
Sealing Degree	IP40

Materials

Base	6/6 Nylon
Housing	6/6 Nylon
Actuator	6/6 Nylon or Polycarbonate
Actuator Lens	Polycarbonate (PC)
Contacts	Silver Alloy
Terminals	Brass, Silver Plated



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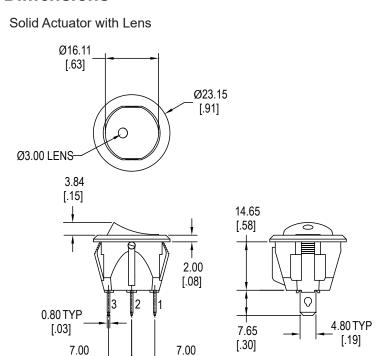
Ordering Information

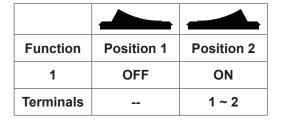
1. Series	RR3	1	1	2	23T	FB	С	N17
RR3								
2. Number of Poles 1 = Single Pole								
3. Switch Function 1 = OFF - ON								
4. Housing Color 1 = White 2 = Black 9 = Gray								
2 = Black 5	olor with Lens = Yellow = Green = Orange	Requires ler7 = Blue8 = Purple9 = Gray	s color choice	below				
Lens Color 0T = Clear (Transp 3T = Red (Transp 4T = Yellow (Transp	arent)	5T = Green (Ti 7T = Blue (Tra						
3T = Red	lator Color: 5T = Green 6T = Orange 7T = Blue							
6. Actuator Marking	– Requires ma	rking color choi	ce below					
A E B F C G D K								
Actuator Marking (Blank = No Markin B = Black W = White R = Red								
7. Terminal Option C = .187" Quick C	onnect / Solde	r Lug						
8a. Lamp Options* N1 = 125VAC Neo N2 = 250VAC Neo *Requires lamp co	n Lamp	w.						
Neon Lamp Colors 0 = standard lamp 5 = Green 7 = Blue								
8b. LED Options** R12 = Red LED 12 R24 = Red LED 24 Y12 = Yellow LED Y24 = Yellow LED G12 = Green LED G24 = Green LED	4V 12V 24V 12V	B12 = Blue LE B24 = Blue LE W12 = White L W24 = White L	D 24V ED 12V					
**only available wi	th fully transpa	rent actuators (Section 5b)					



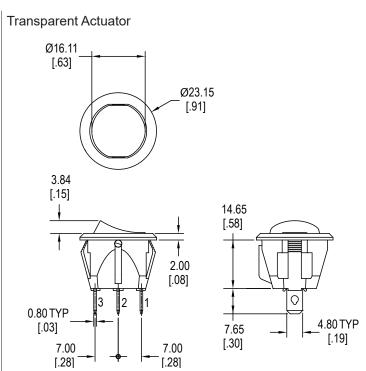
Relay & Switch

Dimensions



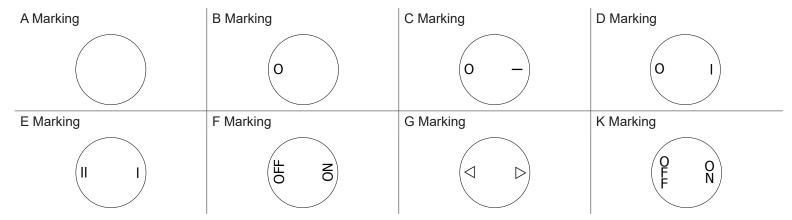


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Actuator Marking Options

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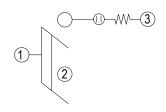




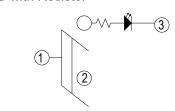
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Schematics

Neon



LED with Resistor

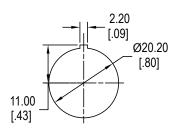


LED Characteristics

LED Ratings		Color							
		R	Υ	G	В	W	Units		
Reverse Voltage	V _R	5	5	5	5	5	V		
Forward Curent (avg)	I _F	30	30	30	30	30	mA		
Reverse Current V _R = 5V	I _R	10	10	10	10	10	μA		
Power Dissipation	P _T	56	56	46	72	76	mW		
Operating & Storage Temperature	T _A		C°						
Forward Voltage (min) I _F = 20mA	V _F	1.7	1.7	1.8	2.8	2.8	V		
Forward Voltage (max) I _F = 20mA	V _F	2.4	2.4	2.4	3.4	3.4	V		
Wavelength (min) I _F = 20mA	λ_{d}	620	585	565	460	n/a	nm		
Wavelength (max) I _F = 20mA	λ_{d}	630	595	575	470	n/a	nm		
Luminous Intensity, I _F = 20mA	LI	50	150	30	140	500	mcd		
Viewing Angle	Θ	50	50	70	120	70	deg		

Panel Cut Out

Panel cut out material thickness: 0.8mm ~ 3.0mm



Terminal Options

