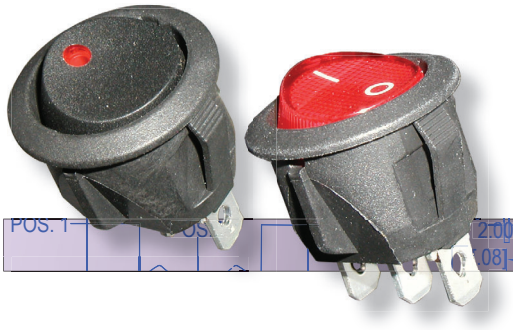


RoHS Compliant

E222871

RR3 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	≤ 50mΩ initial
Dielectric Strength	1500Vrms min
Insulation Resistance	≥ 100MΩ min
Operating Temperature	-20ºC to 70ºC
Storage Temperature	-20ºC to 70ºC
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

Dimensions shown in mm. Dimensions are shown for reference purposes only.
RR3 Rev B 5/2022

Specifications and availability subject to change without notice.

CIT Relay & Switch RR3

Neon / LED Illuminated Round Rocker

Ordering Information

1. Series	RR3	1	1	2	23T	FB	C	N17

RR3

2. Number of Poles
1 = Single Pole

3. Switch Function
1 = OFF - ON

4. Housing Color
1 = White
2 = Black
9 = Gray

5a. Solid Actuator Color with Lens — *Requires lens color choice below*

1 = White	4 = Yellow	7 = Blue
2 = Black	5 = Green	8 = Purple
3 = Red	6 = Orange	9 = Gray

Lens Color

0T = Clear (Transparent)	5T = Green (Transparent)
3T = Red (Transparent)	7T = Blue (Transparent)
4T = Yellow (Transparent)	

5b. Transparent Actuator Color:

1T = White	5T = Green
3T = Red	6T = Orange
4T = Yellow	7T = Blue

6. Actuator Marking — *Requires marking color choice below*

A	E
B	F
C	G
D	K

Actuator Marking Color
Blank = No Marking
B = Black
W = White
R = Red

7. Terminal Option
C = .187” Quick Connect / Solder Lug

8a. Lamp Options*
N1 = 125VAC Neon Lamp
N2 = 250VAC Neon Lamp
**Requires lamp color choice below*

Neon Lamp Colors
0 = standard lamp
5 = Green
7 = Blue

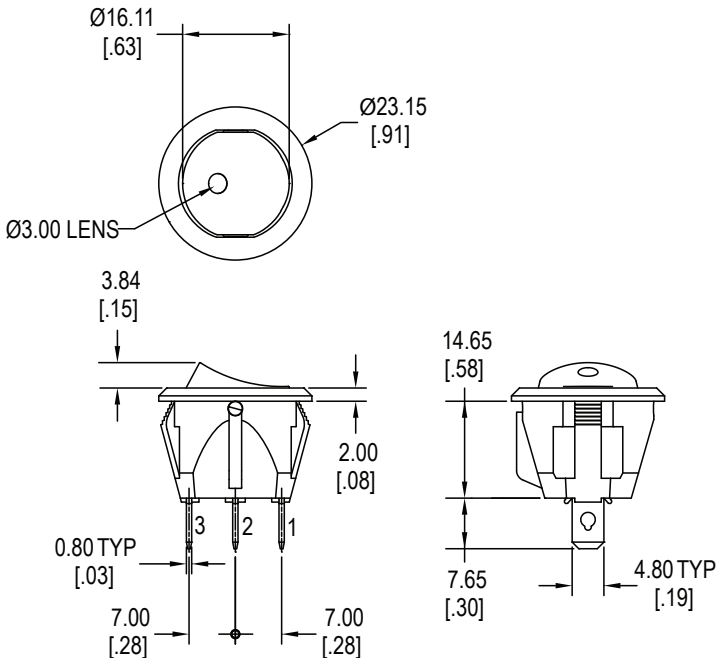
8b. LED Options**

R12 = Red LED 12V	B12 = Blue LED 12V
R24 = Red LED 24V	B24 = Blue LED 24V
Y12 = Yellow LED 12V	W12 = White LED 12V
Y24 = Yellow LED 24V	W24 = White LED 24V
G12 = Green LED 12V	
G24 = Green LED 24V	

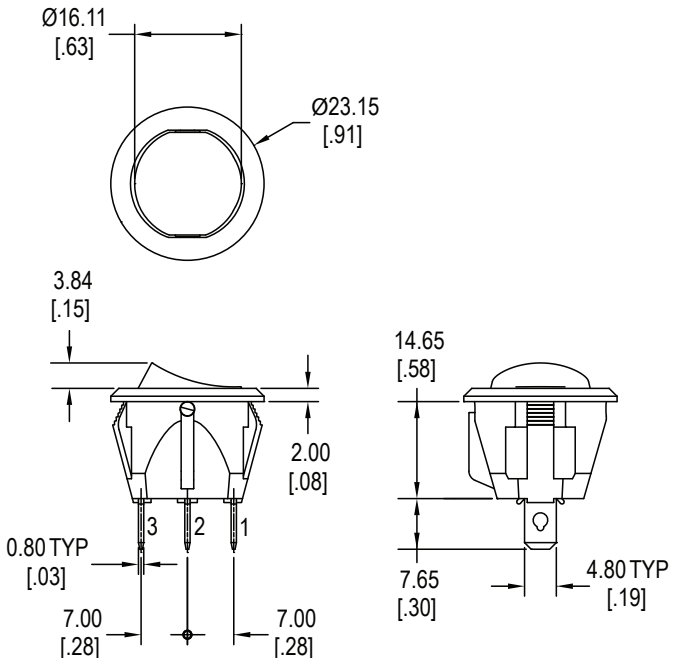
***only available with fully transparent actuators (Section 5b)*

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Dimensions



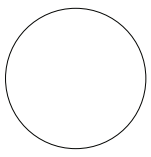
Solid Actuator with Lens



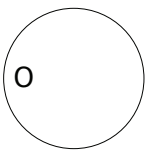
Transparent Actuator

Function	**Position 1**	**Position 2**
1	**OFF**	**ON**
Terminals	**--**	**1 ~ 2**

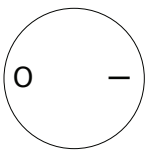
Actuator Marking Options



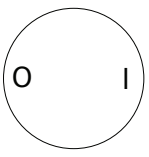
A



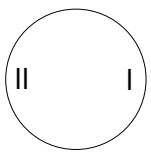
B



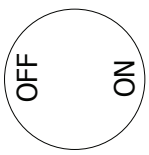
C



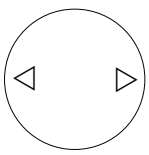
D



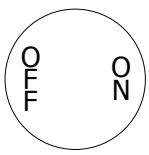
E



F



G

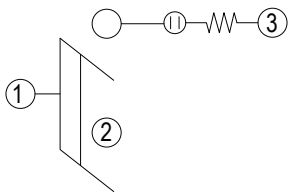


K

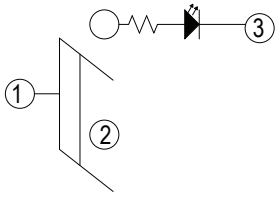
Dimensions shown in mm. Dimensions are shown for reference purposes only.
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Specifications and availability subject to change without notice.

Schematics



Neon

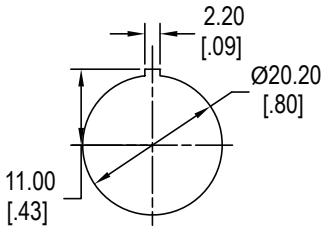


LED with Resistor

LED Characteristics

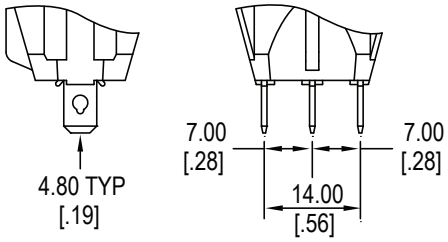
LED Ratings		Color					
		R	Y	G	B	W	Units
Reverse Voltage	V_R	5	5	5	5	5	V
Forward Curent (avg)	I_F	30	30	30	30	30	mA
Reverse Current V_R = 5V	I_R	10	10	10	10	10	µA
Power Dissipation	P_T	56	56	46	72	76	mW
Operating & Storage Temperature	T_A	-40 ~ +85					Cº
Forward Voltage (min) I_F = 20mA	V_F	1.7	1.7	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



C

Dimensions shown in mm. Dimensions are shown for reference purposes only.
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