

SPECIFICATIONS

Electrical Ratings	1A @ 24VDC 1A @ 125VAC 0.5A @ 250VAC
Electrical Life	30,000 cycles typical
Contact Resistance	< 50 mΩ initial
Actuation Force	200 +/- 50gF
Actuator Travel	2.5 +/- .3mm
Dielectric Strength:	1000Vrms min (contact to contact) 1500Vrms min (contact to LED)
Insulation Resistance	> 100MΩ min
Operating Temperature	-25°C to 70°C
Storage Temperature	-25°C to 70°C



MATERIALS ←RoHS COMPLIANT

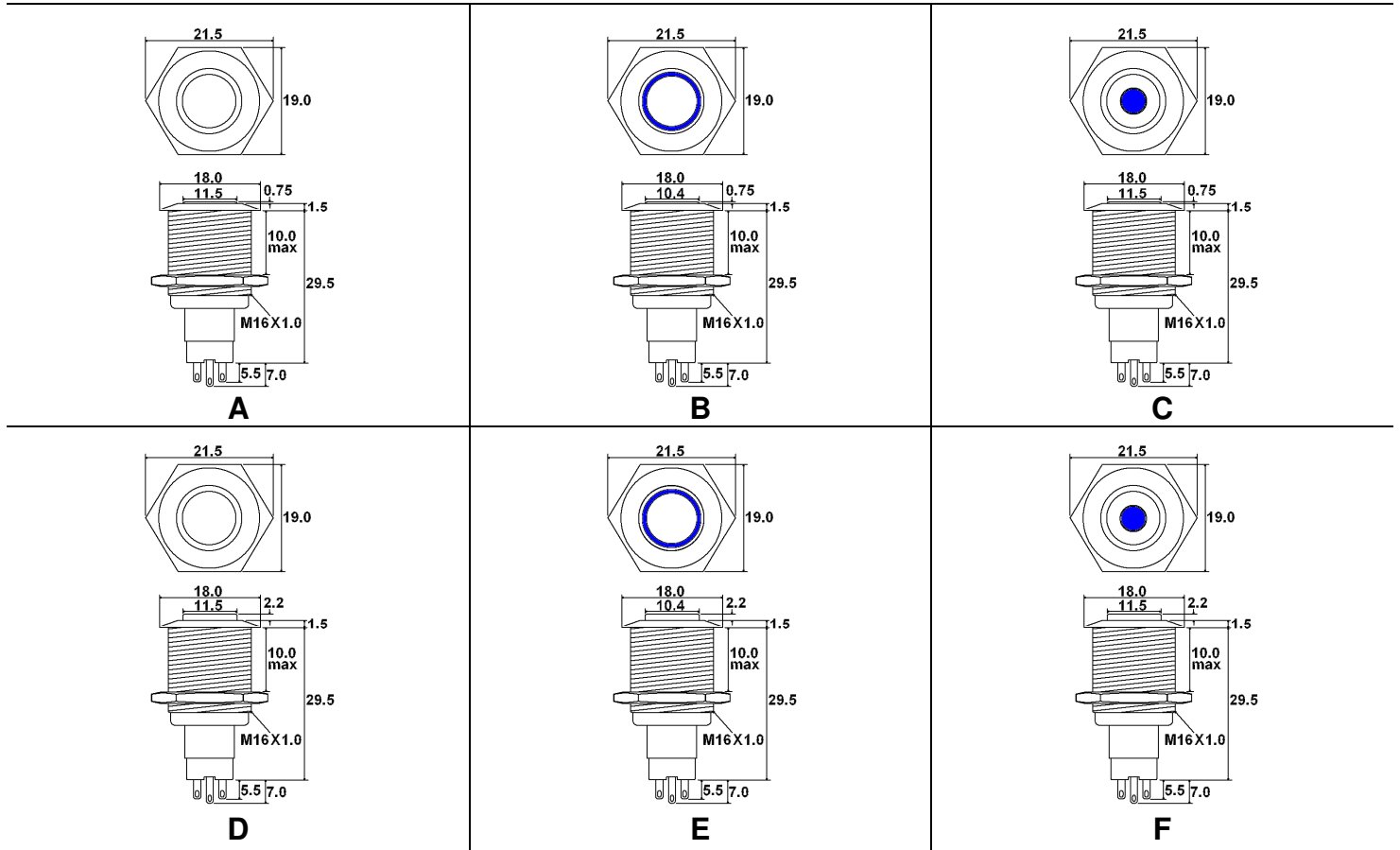
Actuator & Body	Brass, Nickel Plated, Stainless Steel, Black Anodized Aluminum
LED Lens	PC
Nut	Brass, Nickel Plated
Terminal Support	PBT
Inner Switch Body	PC
Contacts	Silver Alloy
Terminals	Brass, tin plated

Laser etching available, contact factory

ORDERING INFORMATION

1. Series:	CH	2	L	B	N	R	B	12
CH								
2. Number of Poles:								
1 = SPDT								
2 = DPDT								
3. Latching Option:								
N = Momentary								
L = Latching								
4. Actuator Style:								
A = Flush actuator, non-illuminated								
B = Flush actuator, ring illuminated								
C = Flush actuator, dot illuminated								
D = Raised actuator, non-illuminated								
E = Raised actuator, ring illuminated								
F = Raised actuator, dot illuminated								
5. Switch Finish:								
S = Stainless steel								
N = Nickel plated								
B = Black								
6. First LED Color:								
Blank = No First LED	G = Green	O = Orange						
R = Red	B = Blue							
Y = Yellow	W = White**							
7. Second LED Color:	**For Bi-color LED Option, White only available in single color							
Blank = No Second LED	G = Green	O = Orange						
R = Red	Y = Yellow	B = Blue						
8. LED Voltage:								
Blank = No LED	24 = 24V	N = No internal resistor in series with the LED						
6 = 6V	110 = 110V							
12 = 12V	220 = 220V							
9. Sealing Options:								
Blank = IP40 (standard)								
S = IP65								

DIMENSIONS



LED CHARACTERISTICS

LED Ratings		COLORS							Units
		R	Y	G	B	O	W		
Reverse Voltage	V_R	5	5	5	5	5	5	V	
Forward Current (avg)	I_F	25	25	30	30	25	30	mA	
Forward Current (peak)	I_{FS}	120	120	160	160	120	160	mA	
Reverse Current $V_R = 5V$	I_R	10	10	10	10	10	10	μA	
Power Dissipation	P_T	80	80	120	120	80	120	mW	
Operating & Storage Temperature	T_A	-25~ +70						°C	
Forward Voltage (typ.), $I_F = 20mA$	V_F	2.1	2.1	3.3	3.3	2.0	3.0	V	
Forward Voltage (max.), $I_F = 20mA$	V_F	2.4	2.5	3.6	3.6	2.3	3.6	V	
Wavelength at Peak Emmission, $I_F = 20mA$	λ_P	635	592	516	463	606	N/A	nm	
Spectral Line Half-Width, $I_F = 20mA$	$\Delta\lambda$	14	12	28	20	12	N/A	nm	
Luminous Intensity, $I_F = 20mA$	LI	120	120	170	100	120	700	mcd	
Viewing Angle	Θ	145	145	145	145	145	145	Deg	

SCHEMATICS & PANEL CUT OUT

