

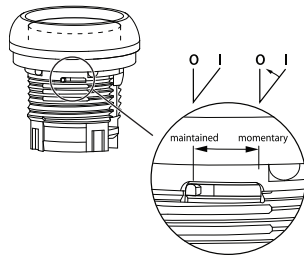
Illuminated, Flush, Maintained

C22(S)-DRL-

Illuminated Pushbuttons, Flush, Maintained



LED Color	Button Color	Voltage	Contact Block Configuration	Silver Bezel Catalog Number	Black Bezel Catalog Number
Green	Green	24 Vac/Vdc	1NO	C22-DRL-G-K10-24	C22S-DRL-G-K10-24
		120 Vac	1NO	C22-DRL-G-K10-120	C22S-DRL-G-K10-120
		230 Vac	1NO	C22-DRL-G-K10-230	C22S-DRL-G-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22-DRL-XG-K10-24	C22S-DRL-XG-K10-24
		120 Vac	1NO	C22-DRL-XG-K10-120	C22S-DRL-XG-K10-120
		230 Vac	1NO	C22-DRL-XG-K10-230	C22S-DRL-XG-K10-230
	Red	24 Vac/Vdc	1NC	C22-DRL-R-K01-24	C22S-DRL-R-K01-24
		120 Vac	1NC	C22-DRL-R-K01-120	C22S-DRL-R-K01-120
		230 Vac	1NC	C22-DRL-R-K01-230	C22S-DRL-R-K01-230
Red	Red	24 Vac/Vdc	1NC	C22-DRL-R-K01-24	C22S-DRL-R-K01-24
		120 Vac	1NC	C22-DRL-R-K01-120	C22S-DRL-R-K01-120
		230 Vac	1NC	C22-DRL-R-K01-230	C22S-DRL-R-K01-230
	Buttonless	24 Vac/Vdc	1NC	C22-DRL-XR-K01-24	C22S-DRL-XR-K01-24
		120 Vac	1NC	C22-DRL-XR-K01-120	C22S-DRL-XR-K01-120
		230 Vac	1NC	C22-DRL-XR-K01-230	C22S-DRL-XR-K01-230
	White	24 Vac/Vdc	1NO	C22-DRL-W-K10-24	C22S-DRL-W-K10-24
		120 Vac	1NO	C22-DRL-W-K10-120	C22S-DRL-W-K10-120
		230 Vac	1NO	C22-DRL-W-K10-230	C22S-DRL-W-K10-230
White	White	24 Vac/Vdc	1NO	C22-DRL-W-K10-24	C22S-DRL-W-K10-24
		120 Vac	1NO	C22-DRL-W-K10-120	C22S-DRL-W-K10-120
		230 Vac	1NO	C22-DRL-W-K10-230	C22S-DRL-W-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22-DRL-XW-K10-24	C22S-DRL-XW-K10-24
		120 Vac	1NO	C22-DRL-XW-K10-120	C22S-DRL-XW-K10-120
		230 Vac	1NO	C22-DRL-XW-K10-230	C22S-DRL-XW-K10-230
	Blue	24 Vac/Vdc	1NO	C22-DRL-B-K10-24	C22S-DRL-B-K10-24
		120 Vac	1NO	C22-DRL-B-K10-120	C22S-DRL-B-K10-120
		230 Vac	1NO	C22-DRL-B-K10-230	C22S-DRL-B-K10-230
Blue	Blue	24 Vac/Vdc	1NO	C22-DRL-B-K10-24	C22S-DRL-B-K10-24
		120 Vac	1NO	C22-DRL-B-K10-120	C22S-DRL-B-K10-120
		230 Vac	1NO	C22-DRL-B-K10-230	C22S-DRL-B-K10-230
	Buttonless	24 Vac/Vdc	1NO	C22-DRL-XB-K10-24	C22S-DRL-XB-K10-24
		120 Vac	1NO	C22-DRL-XB-K10-120	C22S-DRL-XB-K10-120
		230 Vac	1NO	C22-DRL-XB-K10-230	C22S-DRL-XB-K10-230



Note: Maintained pushbuttons can be converted in the field to momentary operation by switching the locking ring, which is accessible through the side of the operator body.

Technical Data and Specifications

22.5 mm Compact Pushbuttons—C22

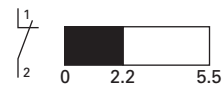
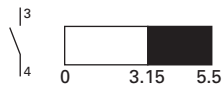
Description	Unit		Pushbutton Actuators		Indicator Lights C22	Selector Switch Actuators C22	Key-Operated Buttons C22	Emergency Stop/ Emergency Switching OFF Pushbuttons C22
			Illuminated Pushbuttons C22	Momentary				
General								
Standards		IEC/EN 60947 VDE 0660						
Lifespan, mechanical	Operations	x 10 ⁶	5	1	—	1	0.1	0.05
Operating frequency	Operations/h		≥3600	≥3600	—	≥2000	≥100	≥300
Actuating force		N	≥5	≥5	—	—	—	≥50
Operating torque		Nm	—	—	—	≥0.3	≥0.5	—
Terminal screw tightening torque		Nm	0.8	0.8	0.8	0.8	0.8	0.8
Threaded ring tightening torque		Nm	2	2	2	2	2	2
Protection type			IP67, IP69K	IP67, IP69K	IP67, IP69K	IP65	IP66	IP67, IP69K
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30						
Ambient temperature								
Open		°C	–25° to 70°	–25° to 70°	–25° to 70°	–25° to 70°	–25° to 70°	–25° to 70°
Storage		°C	–30° to 80°	–30° to 80°	–30° to 80°	–30° to 80°	–30° to 80°	–30° to 80°
Mounting position			As required	As required	As required	As required	As required	As required
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	30	30	30	30	30	30
Terminal capacities								
Solid		mm ²	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5
Flexible with ferrule		mm ²	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5	2 x 0.5–1.5
Contacts								
Rated impulse withstand voltage	U _{imp}	Vac	4000	4000	4000	4000	4000	4000
Rated insulation voltage	U _i	V	250	250	250	250	250	250
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3	III/3	III/3
Control circuit reliability								
at 5 Vdc/1 mA	H _F	Fault probability	Values follow	Values follow	—	Values follow	Values follow	Values follow
at 17 Vdc/7 mA	H _F	Fault probability	N/O contact: statistically determined 1 failure per 17 x 10 ⁶ operations N/C contact: statistically determined 1 failure per 0.9 x 10 ⁶ operations		—	N/O contact: statistically determined 1 failure per 17 x 10 ⁶ operations N/C contact: statistically determined 1 failure per 0.9 x 10 ⁶ operations		
at 24 Vdc/5 mA	H _F	Fault probability	Values follow	Values follow	—	Values follow	Values follow	Values follow
Max. short-circuit protective device								
Fuse	gG/gL	A	10	10	—	10	10	10

22.5 mm Compact Pushbuttons—C22, continued

Description	Unit		Push-button Actuators		Indicator Lights C22	Selector Switch Actuators C22	Key-Operated Buttons C22	Emergency Stop/ Emergency Switching OFF Pushbuttons C22
			Illuminated Pushbuttons C22	Momentary				
Switching Capacity								
Rated operational current								
AC-15								
24V	I _e	A	4	4	—	4	4	4
110V	I _e	A	2	2	—	2	2	2
230V	I _e	A	1.5	1.5	—	1.5	1.5	1.5
DC-13								
24V	I _e	A	3	3	—	3	3	3
60V	I _e	A	1	1	—	1	1	1
110V	I _e	A	0.6	0.6	—	0.6	0.6	0.6
220V	I _e	A	0.3	0.3	—	0.3	0.3	0.3
Lifespan, electrical								
AC-15								
230V/0.5A	Operations	x 10 ⁶	0.4	0.4	—	0.4	0.4	0.4
230V/1.0A		x 10 ⁶	0.6	0.6	—	0.6	0.6	0.6

Contact Travel

Contact Travel Diagram



■ Contact closed

□ Contact open

37.5 Pushbuttons and Indicating Lights

22.5 mm Compact Pushbuttons—C22

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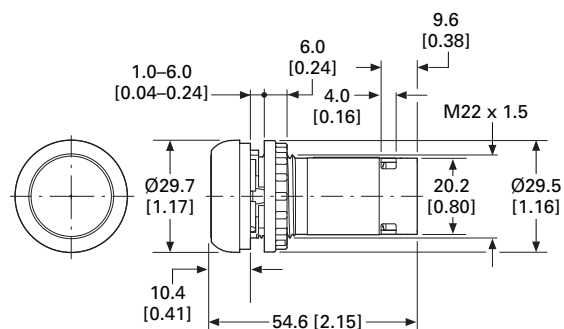
Dimensions

Approximate Dimensions in mm [in]

Illuminated Pushbuttons

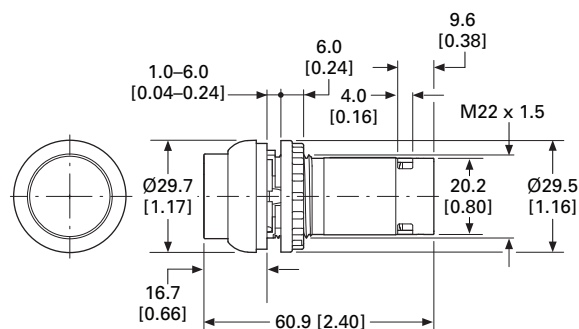
Flat

C22(S)-DRL_/C22(S)-DL_



Extended

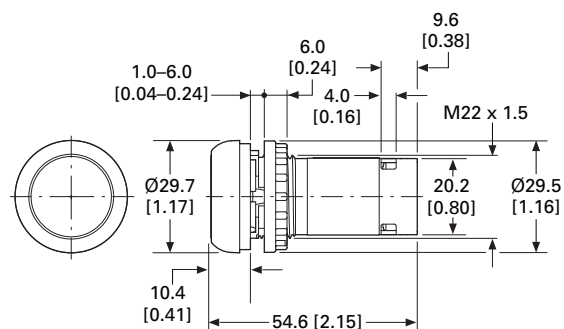
C22(S)-DRLH_/C22(S)-DLH_



Pushbutton Actuators

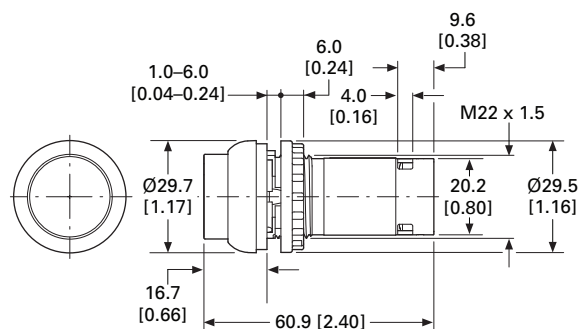
Flat

C22(S)-DR_/C22(S)-D_



Extended

C22(S)-DRH_/C22(S)-DH_



Indicating Lights

Flat

C22-L_

