22.5 mm Compact Pushbuttons—C22

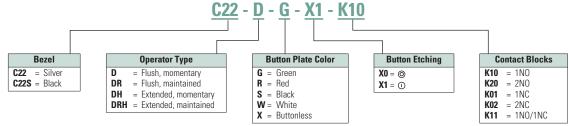
Catalog Number Selection

37.5

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Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Non-Illuminated Pushbuttons



Product Selection

Non-Illuminated, Flush, Momentary

Non-Illuminated Pushbuttons, Flush, Momentary

|)-D | Non-Illuminated Pushbuttons, Flush, Momentary Button Button Contact Block Silver Bezel Black Bezel | | | | | | |
|--|--|---------|---------------|----------------|-----------------|--|--|
| - | Color | Etching | Configuration | Catalog Number | Catalog Number | | |
| | Green | | 1N0 | C22-D-G-K10 | C22S-D-G-K10 | | |
| | | | 2N0 | C22-D-G-K20 | C22S-D-G-K20 | | |
| | | | 1N0/1NC | C22-D-G-K11 | C22S-D-G-K11 | | |
| and the second s | | X1 | 1N0 | C22-D-G-X1-K10 | C22S-D-G-X1-K10 | | |
| | | X1 | 2N0 | C22-D-G-X1-K20 | C22S-D-G-X1-K20 | | |
| and a second | | X1 | 1N0/1NC | C22-D-G-X1-K11 | C22S-D-G-X1-K11 | | |
| | Red | _ | 1NC | C22-D-R-K01 | C22S-D-R-K01 | | |
| | | | 2NC | C22-D-R-K02 | C22S-D-R-K02 | | |
| | | | 1N0/1NC | C22-D-R-K11 | C22S-D-R-K11 | | |
| | | X0 | 1NC | C22-D-R-X0-K01 | C22S-D-R-X0-K01 | | |
| | | X0 | 2NC | C22-D-R-X0-K02 | C22S-D-R-X0-K02 | | |
| | | XO | 1N0/1NC | C22-D-R-X0-K11 | C22S-D-R-X0-K11 | | |
| | Black | _ | 1NC | C22-D-S-K01 | C22S-D-S-K01 | | |
| | | | 2NC | C22-D-S-K02 | C22S-D-S-K02 | | |
| | | | 1N0/1NC | C22-D-S-K11 | C22S-D-S-K11 | | |
| | | X0 | 1NC | C22-D-S-X0-K01 | C22S-D-S-X0-K01 | | |
| | | X0 | 2NC | C22-D-S-X0-K02 | C22S-D-S-X0-K02 | | |
| | | XO | 1N0/1NC | C22-D-S-X0-K11 | C22S-D-S-X0-K11 | | |
| | White | _ | 1N0 | C22-D-W-K10 | C22S-D-W-K10 | | |
| | | | 2N0 | C22-D-W-K20 | C22S-D-W-K20 | | |
| | | | 1N0/1NC | C22-D-W-K11 | C22S-D-W-K11 | | |
| | | X1 | 1N0 | C22-D-W-X1-K10 | C22S-D-W-X1-K10 | | |
| | | X1 | 2N0 | C22-D-W-X1-K20 | C22S-D-W-X1-K20 | | |
| | | X1 | 1N0/1NC | C22-D-W-X1-K11 | C22S-D-W-X1-K11 | | |
| | Buttonless | _ | 1N0 | C22-D-X-K10 | C22S-D-X-K10 | | |
| | | | 2N0 | C22-D-X-K20 | C22S-D-X-K20 | | |
| | | | 1NC | C22-D-X-K01 | C22S-D-X-K01 | | |
| | | | 2NC | C22-D-X-K02 | C22S-D-X-K02 | | |
| | | | 1N0/1NC | C22-D-X-K11 | C22S-D-X-K11 | | |

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22.5 mm Compact Pushbuttons—C22

Technical Data and Specifications

22.5 mm Compact Pushbuttons—C22

| | | | | shbuttons C22 | Indicator | Selector Switch | Key-Operated | Emergency Stop/ Emergency Switching | |
|---|------------------|----------------------|---|---------------|-------------|---|---------------------------|--|--|
| Description | Unit | | Momentary | Maintained | Lights C22 | Actuators C22 | Buttons C22 | OFF Pushbuttons C22 | |
| General | | | | | | | | | |
| Standards | | | | | IE | EC/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 | | Ν | ≥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 | Ui | 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 106 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 106 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 | А | 10 | 10 | _ | 10 | 10 | 10 | |

22.5 mm Compact Pushbuttons—C22

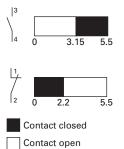


| | | | Push-button Actuators Illuminated Pushbuttons C22 | | Indicator | Selector Switch | Key-Operated | Emergency Stop/ Emergency Switching |
|---------------------------|----------------|-------------------|--|------------|------------|-----------------|--------------|--|
| Description | Unit | | Momentary | Maintained | Lights C22 | Actuators C22 | Buttons C22 | OFF Pushbuttons C22 |
| Switching Capacity | | | | | | | | |
| Rated operational current | | | | | | | | |
| AC-15 | | | | | | | | |
| 24V | l _e | А | 4 | 4 | _ | 4 | 4 | 4 |
| 110V | l _e | А | 2 | 2 | _ | 2 | 2 | 2 |
| 230V | l _e | А | 1.5 | 1.5 | _ | 1.5 | 1.5 | 1.5 |
| DC-13 | | | | | | | | |
| 24V | l _e | А | 3 | 3 | _ | 3 | 3 | 3 |
| 60V | l _e | А | 1 | 1 | _ | 1 | 1 | 1 |
| 110V | l _e | А | 0.6 | 0.6 | _ | 0.6 | 0.6 | 0.6 |
| 220V | l _e | А | 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 |

22.5 mm Compact Pushbuttons—C22, continued

Contact Travel

Contact Travel Diagram



22.5 mm Compact Pushbuttons—C22

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Approximate Dimensions in mm [in]

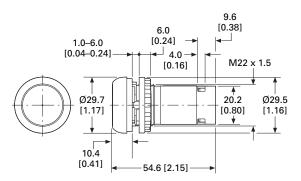
Illuminated Pushbuttons

37.5

Dimensions

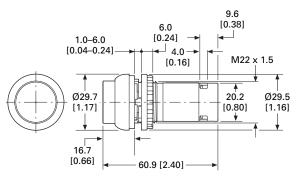
Flat

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



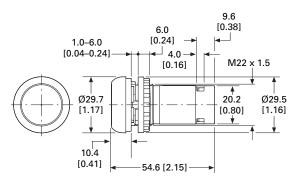
Extended

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



Pushbutton Actuators

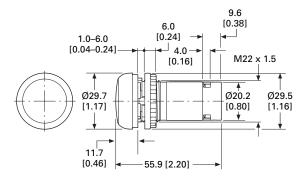
Flat C22(S)-DR_/C22(S)-D_



Indicating Lights

Flat

C22-L_



Extended

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

