

# 22mm Metal Pilot Device Accessories

## Replacement Incandescent Bulbs

| Replacement Incandescent Bulbs   |          |         |                          |                                                                                         |
|----------------------------------|----------|---------|--------------------------|-----------------------------------------------------------------------------------------|
| Part Number                      | Quantity | Price   | Rating                   | Description                                                                             |
| <a href="#"><u>ECX1900-5</u></a> | 5        | \$9.50  | 6V@ 200mA ,<br>1.2 watts | 6V replacement bulb for 22mm switches and indicators.<br>Miniature bayonet base T31/4   |
| <a href="#"><u>ECX1902-5</u></a> | 5        | \$9.50  | 24V@ 80mA<br>2 watts     | 24V replacement bulb for 22mm switches and indicators.<br>Miniature bayonet base T31/4  |
| <a href="#"><u>ECX1904-5</u></a> | 5        | \$20.00 | 130V@20mA<br>2.6 watts   | 120V replacement bulb for 22mm switches and indicators.<br>Miniature bayonet base T31/4 |

Note: Bulb removal tool available. Order part number HT8LAMPTOOL.



[ECX1902-5](#)

## Replacement LED Lamps

| Replacement LED Lamps            |        |          |         |                       |                                                                                                                                                                                                                                                                |
|----------------------------------|--------|----------|---------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                      | Color  | Quantity | Price   | Rating                | Description                                                                                                                                                                                                                                                    |
| <a href="#"><u>ECX1911-2</u></a> | Red    | 2        | \$17.50 | 24V@26mA<br>0.6 watts | LED replacement lamp for miniature bayonet bases<br>Works with 22mm switches and indicators, but<br>illumination will not be as even when used with the<br>ECX 22mm indicators<br><br>Note: Will not replace sealed Cutler-Hammer<br>monoblock LED indicators. |
| <a href="#"><u>ECX1912-2</u></a> | Green  |          | \$22.00 |                       |                                                                                                                                                                                                                                                                |
| <a href="#"><u>ECX1913-2</u></a> | Yellow |          | \$17.50 |                       |                                                                                                                                                                                                                                                                |
| <a href="#"><u>ECX1914-2</u></a> | Blue   |          | \$23.50 |                       |                                                                                                                                                                                                                                                                |
| <a href="#"><u>ECX1915-2</u></a> | White  |          | \$28.00 |                       |                                                                                                                                                                                                                                                                |
| <a href="#"><u>ECX1921-2</u></a> | Red    |          | \$17.50 | 120V@5mA<br>0.6 watts |                                                                                                                                                                                                                                                                |
| <a href="#"><u>ECX1922-2</u></a> | Green  |          | \$22.00 |                       |                                                                                                                                                                                                                                                                |
| <a href="#"><u>ECX1923-2</u></a> | Yellow |          | \$17.50 |                       |                                                                                                                                                                                                                                                                |
| <a href="#"><u>ECX1924-2</u></a> | Blue   |          | \$23.50 |                       |                                                                                                                                                                                                                                                                |
| <a href="#"><u>ECX1925-2</u></a> | White  |          | \$28.00 |                       |                                                                                                                                                                                                                                                                |



[ECX1915-2](#)

## Hole plug

| Hole Plug                      |       |        |                                                                                                                                  |
|--------------------------------|-------|--------|----------------------------------------------------------------------------------------------------------------------------------|
| Part Number                    | Color | Price  | Description                                                                                                                      |
| <a href="#"><u>ECX1490</u></a> | Black | \$2.75 | Plastic hole plug for 22.5 mm openings in panels and enclosures; supplied with O-ring and mounting screw. Two plugs per package. |



[ECX1490](#)

## Pilot Light Replacement Lens

| Pilot Light Replacement Lens      |            |        |                                                         |                                      |
|-----------------------------------|------------|--------|---------------------------------------------------------|--------------------------------------|
| Part Number                       | Lamp Color | Price  | Description                                             | Use with                             |
| <a href="#"><u>PL1170PR-5</u></a> | Red        | \$7.00 | 22mm metallic series pilot light replacement lens, 5/pk | Part numbers starting with<br>GCX123 |
| <a href="#"><u>PL1170PV-5</u></a> | Green      | \$7.00 | 22mm metallic series pilot light replacement lens, 5/pk |                                      |
| <a href="#"><u>PL1170PG-5</u></a> | Yellow     | \$7.00 | 22mm metallic series pilot light replacement lens, 5/pk |                                      |
| <a href="#"><u>PL1170PB-5</u></a> | Blue       | \$7.00 | 22mm metallic series pilot light replacement lens, 5/pk |                                      |
| <a href="#"><u>PL1170PN-5</u></a> | Clear      | \$7.00 | 22mm metallic series pilot light replacement lens, 5/pk |                                      |
| <a href="#"><u>PL1170PW-5</u></a> | White      | \$7.00 | 22mm metallic series pilot light replacement lens, 5/pk |                                      |



[PL1170PR-5](#)

# 22mm Metal Pilot Device Accessories

## Protective Covers for Pushbuttons

| Protective Covers for Pushbuttons |        |          |         |                                                                                                                                                                                                                                           |
|-----------------------------------|--------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                       | Color  | Quantity | Price   | Description                                                                                                                                                                                                                               |
| <a href="#"><u>ECX1700-5</u></a>  | Black  | 5        | \$7.50  | Silicone protective covers for use with 22mm standard-size flush pushbuttons.<br><br>Will not work with Cutler-Hammer pushbuttons, 22mm plastic illuminated or extended pushbuttons, or 22mm plastic pushbuttons with 40mm actuator face. |
| <a href="#"><u>ECX1701-5</u></a>  | Red    |          | \$7.50  |                                                                                                                                                                                                                                           |
| <a href="#"><u>ECX1702-5</u></a>  | Green  |          | \$7.50  |                                                                                                                                                                                                                                           |
| <a href="#"><u>ECX1703-5</u></a>  | Yellow |          | \$7.50  |                                                                                                                                                                                                                                           |
| <a href="#"><u>ECX1704-5</u></a>  | Blue   |          | \$7.50  |                                                                                                                                                                                                                                           |
| <a href="#"><u>ECX1705-5</u></a>  | Clear  |          | \$7.50  |                                                                                                                                                                                                                                           |
| <a href="#"><u>ECX1706-5</u></a>  | Clear  |          | \$13.00 | Clear silicone protective covers for use with 2 mm illuminated and extended pushbuttons only.<br>Will not work with Cutler-Hammer pushbuttons or 22mm mushroom pushbuttons.                                                               |



**[ECX1703-5](#)**

## Replacement 22mm Support Base

| Replacement 22mm Support Base    |          |        |                            |                                                                                                                                                                                                       |
|----------------------------------|----------|--------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                      | Quantity | Price  | Drawing Link               | Description                                                                                                                                                                                           |
| <a href="#"><u>ECX1029-2</u></a> | 1        | \$7.00 | <a href="#"><u>PDF</u></a> | 22mm metal support base<br>Note: This item is supplied as a replacement part and is not required with any switch assembly.<br>Will not work with Cutler-Hammer 22mm switches sold by AutomationDirect |



**[ECX1029-2](#)**

## Replacement Contact Blocks

| Replacement Contact Blocks       |          |         |                            |                                        |                                                                                                                                                                                                                 |
|----------------------------------|----------|---------|----------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                      | Quantity | Price   | Drawing Link               | Contacts                               | Description                                                                                                                                                                                                     |
| <a href="#"><u>ECX1030-2</u></a> | 2        | \$7.25  | <a href="#"><u>PDF</u></a> | Red, normally-closed (N.C.)            | Replacement contact block for 22mm pushbuttons and selector switches.<br><br>Tightening Torque, terminal screw: 0.8Nm max<br>mounting screw: 0.5Nm max<br>Note: Will not work with Cutler-Hammer 22mm switches. |
| <a href="#"><u>ECX1030-5</u></a> | 5        | \$17.00 | <a href="#"><u>PDF</u></a> |                                        |                                                                                                                                                                                                                 |
| <a href="#"><u>ECX1040-2</u></a> | 2        | \$7.25  | <a href="#"><u>PDF</u></a> | Green, normally-open (N.O.)            |                                                                                                                                                                                                                 |
| <a href="#"><u>ECX1040-5</u></a> | 5        | \$17.00 | <a href="#"><u>PDF</u></a> |                                        |                                                                                                                                                                                                                 |
| <a href="#"><u>ECX1042-2</u></a> | 2        | \$7.25  | <a href="#"><u>PDF</u></a> | Brown, normally-open (N.O.), push-push | Replacement normally open push-push contact blocks for 22mm pushbutton and selector switches, pack of 2. Note: Will not work with Cutler-Hammer 22mm switches.                                                  |



**[ECX1030-2](#)**

Note: See electrical specifications on ECX Series 22mm Metal Pilot Devices Specifications page at beginning of this section.

## Replacement Keys

| Replacement Keys                 |                                |        |                                                                                                                                                    |
|----------------------------------|--------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                      | Quantity                       | Price  | Description                                                                                                                                        |
| <a href="#"><u>ECX1067-2</u></a> | Pkg of 2 sets (2 keys per set) | \$6.50 | Replacement key for GCX series key-actuated selector switches, pack of 2 sets (2 keys each). NOTE: Will not work with Cutler-Hammer 22mm switches. |



**[ECX1067-2](#)**

Note: All key-actuated 22mm metal selector switches are keyed alike.

# 22mm Metal Pilot Device Accessories

## EMERGENCY STOP Legend Plate

| EMERGENCY STOP Legend Plate    |          |        |              |                                                                                                                        |
|--------------------------------|----------|--------|--------------|------------------------------------------------------------------------------------------------------------------------|
| Part Number                    | Quantity | Price  | Drawing Link | Description                                                                                                            |
| <a href="#"><u>ECX1651</u></a> | 1        | \$2.75 | PDF          | Oversize yellow circular EMERGENCY STOP legend plate for 22mm E-stop type mushroom pushbuttons, 60mm outside diameter. |



[ECX1651](#)

## Knockout Punches

Ruko's knockout punch hole-cutting tool includes punch, die and draw bolt (without ball bearing). Use for sheet steel, stainless-steel sheets, non-ferrous and light metals, and plastics up to 0.16" (8 ga.) thick.

Replacement bolts are offered in three of the most popular sizes.

Note: Part number [109225](#) is recommended when punching holes for 22mm pilot devices.



[109225](#)

## Two-Position Short Lever Operator

| 2-Position Short Lever Replacement Operator |            |         |                                                                                    |                                                          |
|---------------------------------------------|------------|---------|------------------------------------------------------------------------------------|----------------------------------------------------------|
| Part Number                                 | Lamp Color | Price   | 2-Position                                                                         | Use with                                                 |
| <a href="#"><u>GR1172PR-5</u></a>           | Red        | \$16.50 | 22mm 2-position selector switch illuminated short lever replacement operator, 5/pk | Part numbers starting with GCX124, GCX125 GCX324, GCX325 |
| <a href="#"><u>GR1172PV-5</u></a>           | Green      | \$16.50 | 22mm 2-position selector switch illuminated short lever replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1172PG-5</u></a>           | Yellow     | \$16.50 | 22mm 2-position selector switch illuminated short lever replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1172PB-5</u></a>           | Blue       | \$16.50 | 22mm 2-position selector switch illuminated short lever replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1172PN-5</u></a>           | Clear      | \$16.50 | 22mm 2-position selector switch illuminated short lever replacement operator, 5/pk |                                                          |



[GR1172PR-5](#)

## Three-Position Short Lever Operator

| 3-Position Short Lever Replacement Operator |            |         |                                                                                    |                                                          |
|---------------------------------------------|------------|---------|------------------------------------------------------------------------------------|----------------------------------------------------------|
| Part Number                                 | Lamp Color | Price   | 3-Position                                                                         | Use with                                                 |
| <a href="#"><u>GR1288PR-5</u></a>           | Red        | \$16.50 | 22mm 3-position selector switch illuminated short lever replacement operator, 5/pk | Part numbers starting with GCX126, GCX128 GCX326, GCX328 |
| <a href="#"><u>GR1288PV-5</u></a>           | Green      | \$16.50 | 22mm 3-position selector switch illuminated short lever replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1288PG-5</u></a>           | Yellow     | \$16.50 | 22mm 3-position selector switch illuminated short lever replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1288PB-5</u></a>           | Blue       | \$16.50 | 22mm 3-position selector switch illuminated short lever replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1288PN-5</u></a>           | Clear      | \$16.50 | 22mm 3-position selector switch illuminated short lever replacement operator, 5/pk |                                                          |



[GR1288PR-5](#)

# 22mm Metal Pilot Device Accessories

## Mushroom Switch Replacement Operator

| Mushroom Switch Replacement Operator |            |        |                                                                                   |                                                                                    |
|--------------------------------------|------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Part Number                          | Lamp Color | Price  | Description                                                                       | Use with                                                                           |
| <a href="#"><u>PL1171PR-5</u></a>    | Red        | \$7.25 | 22mm, illuminated momentary Mushroom switch replacement operator, red, 5/pk       | Part numbers starting with GCX1221, GCX3221 mushroom-style illuminated pushbuttons |
| <a href="#"><u>PL1298P-5</u></a>     | Red        | \$7.25 | 22mm illuminated twist-to-release mushroom switch replacement operator, red, 5/pk | Part numbers starting with GCX1226, GCX3226 mushroom-style illuminated pushbuttons |



**[PL1298P-5](#)**

## Flush Pushbutton Replacement Operator

| Flush Pushbutton Replacement Operator |            |        |                                                              |                                                          |
|---------------------------------------|------------|--------|--------------------------------------------------------------|----------------------------------------------------------|
| Part Number                           | Lamp Color | Price  | Description                                                  | Use with                                                 |
| <a href="#"><u>GR1168PR-5</u></a>     | Red        | \$9.00 | 22mm illuminated flush pushbutton replacement operator, 5/pk | Part numbers starting with GCX119, GCX120 GCX319, GCX320 |
| <a href="#"><u>GR1168PV-5</u></a>     | Green      | \$9.00 | 22mm illuminated flush pushbutton replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1168PG-5</u></a>     | Yellow     | \$9.00 | 22mm illuminated flush pushbutton replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1168PB-5</u></a>     | Blue       | \$9.00 | 22mm illuminated flush pushbutton replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1168PN-5</u></a>     | Clear      | \$9.00 | 22mm illuminated flush pushbutton replacement operator, 5/pk |                                                          |
| <a href="#"><u>GR1168PW-5</u></a>     | White      | \$9.00 | 22mm illuminated flush pushbutton replacement operator, 5/pk |                                                          |



**[GR1168PR-5](#)**

## Extended Pushbutton Replacement Operator

| Extended Pushbutton Replacement Operator |            |        |                                                                  |                                           |
|------------------------------------------|------------|--------|------------------------------------------------------------------|-------------------------------------------|
| Part Number                              | Lamp Color | Price  | Description                                                      | Use with                                  |
| <a href="#"><u>PL1308PR-5</u></a>        | Red        | \$7.00 | 22mm illuminated extended pushbutton, replacement operator, 5/pk | Part numbers starting with GCX121, GCX321 |
| <a href="#"><u>PL1308PV-5</u></a>        | Green      | \$7.00 | 22mm illuminated extended pushbutton, replacement operator, 5/pk |                                           |
| <a href="#"><u>PL1308PG-5</u></a>        | Yellow     | \$7.00 | 22mm illuminated extended pushbutton, replacement operator, 5/pk |                                           |
| <a href="#"><u>PL1308PB-5</u></a>        | Blue       | \$7.00 | 22mm illuminated extended pushbutton, replacement operator, 5/pk |                                           |
| <a href="#"><u>PL1308PN-5</u></a>        | Clear      | \$7.00 | 22mm illuminated extended pushbutton, replacement operator, 5/pk |                                           |
| <a href="#"><u>PL1308PW-5</u></a>        | White      | \$7.00 | 22mm illuminated extended pushbutton, replacement operator, 5/pk |                                           |



**[PL1308PR-5](#)**

# 22mm Metal Pilot Device Accessories

## Legend Plates

Aluminum legend plates for use with 22mm pilot devices. Black or red field with silver background. O-ring included.



**ECX1670A-B04**



**ECX1670A-R03**

| Aluminum Legend Plates |                |            |                  |                                     |        |                            |
|------------------------|----------------|------------|------------------|-------------------------------------|--------|----------------------------|
| Legend                 | Color of Field | Text Color | Background Color | Part Number                         | Price  | Drawing Link               |
| <b>AUTO OFF HAND</b>   | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B46</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>Blank Plate</b>     | Black          | -          | Silver           | <a href="#"><u>ECX1670A-B</u></a>   | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>Blank Plate</b>     | Red            | -          | Silver           | <a href="#"><u>ECX1670A-R</u></a>   | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>CLAMP</b>           | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B24</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>CLOSE</b>           | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B01</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>DOWN</b>            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B02</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>EMERG. STOP</b>     | Red            | Red        | Silver           | <a href="#"><u>ECX1670A-R03</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>EXTEND</b>          | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B51</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>FEEDER OFF</b>      | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B26</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>FEEDER ON</b>       | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B25</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>FOR OFF REV</b>     | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B19</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>FOR REV</b>         | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B13</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>FORWARD</b>         | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B04</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>GRIP</b>            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B53</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>HAND-AUTO</b>       | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B14</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>HAND OFF AUTO</b>   | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B20</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>HIGH</b>            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B27</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>HIGH LOW</b>        | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B43</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>IN</b>              | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B28</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>INCH</b>            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B29</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>JOG</b>             | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B05</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>JOG FOR</b>         | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B30</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>JOG REV</b>         | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B31</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>JOG RUN</b>         | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B15</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>LOW</b>             | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B32</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>LOWER</b>           | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B33</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| <b>MAN AUTO</b>        | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B44</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |

Note: Legend plate text is 3mm in height  
Continued on next page

# 22mm Metal Pilot Device Accessories

**ECX1670A-B48****ECX1670A-R11**

| Aluminum Legend Plates (continued) |                |            |                  |                                     |        |                            |
|------------------------------------|----------------|------------|------------------|-------------------------------------|--------|----------------------------|
| Legend                             | Color of Field | Text Color | Background Color | Part Number                         | Price  | Drawing Link               |
| MAN OFF AUTO                       | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B47</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| MOTOR RUN                          | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B22</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| MOTOR STOP                         | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B23</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| OFF                                | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B34</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| OFF ON                             | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B16</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| ON                                 | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B06</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| OPEN                               | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B07</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| OPEN OFF CLOSE                     | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B48</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| OPEN CLOSE                         | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B17</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| OUT                                | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B35</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| POWER ON                           | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B21</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| PULL ON PUSH OFF                   | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B50</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| RAISE                              | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B36</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| READY                              | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B37</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| RELEASE                            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B54</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| RESET                              | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B38</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| RETRACT                            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B52</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| REVERSE                            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B08</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| RUN                                | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B09</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| SAFE RUN                           | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B45</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| START                              | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B10</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| STOP                               | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B11</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| STOP                               | Red            | Red        | Silver           | <a href="#"><u>ECX1670A-R11</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| TEST                               | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B39</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| TRANSFER                           | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B40</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| TRIP                               | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B41</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| UNCLAMP                            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B42</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| UP                                 | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B12</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| UP OFF DOWN                        | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B49</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |
| UP DOWN                            | Black          | Black      | Silver           | <a href="#"><u>ECX1670A-B18</u></a> | \$3.75 | <a href="#"><u>PDF</u></a> |

Note: Legend plate text is 3mm in height

# 22mm Metal Pilot Device Accessories

**ECX1680A-B17****ECX1680A-R03**

| Jumbo Aluminum Legend Plates |                       |                   |                         |                                            |              |                            |
|------------------------------|-----------------------|-------------------|-------------------------|--------------------------------------------|--------------|----------------------------|
| <i>Legend</i>                | <i>Color of Field</i> | <i>Text Color</i> | <i>Background Color</i> | <i>Part Number</i>                         | <i>Price</i> | <i>Drawing Link</i>        |
| <b>Blank Plate</b>           | Black                 | -                 | Silver                  | <b><u><a href="#">ECX1680A-B</a></u></b>   | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>Blank Plate</b>           | Red                   | -                 | Silver                  | <b><u><a href="#">ECX1680A-R</a></u></b>   | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>EMERG. STOP</b>           | Red                   | Red               | Silver                  | <b><u><a href="#">ECX1680A-R03</a></u></b> | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>HAND OFF AUTO</b>         | Black                 | Black             | Silver                  | <b><u><a href="#">ECX1680A-B20</a></u></b> | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>JOG</b>                   | Black                 | Black             | Silver                  | <b><u><a href="#">ECX1680A-B05</a></u></b> | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>OFF ON</b>                | Black                 | Black             | Silver                  | <b><u><a href="#">ECX1680A-B16</a></u></b> | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>OPEN CLOSE</b>            | Black                 | Black             | Silver                  | <b><u><a href="#">ECX1680A-B17</a></u></b> | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>POWER ON</b>              | Black                 | Black             | Silver                  | <b><u><a href="#">ECX1680A-B21</a></u></b> | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>START</b>                 | Black                 | Black             | Silver                  | <b><u><a href="#">ECX1680A-B10</a></u></b> | \$4.25       | <u><a href="#">PDF</a></u> |
| <b>STOP</b>                  | Red                   | Red               | Silver                  | <b><u><a href="#">ECX1680A-R11</a></u></b> | \$4.25       | <u><a href="#">PDF</a></u> |

Note: Legend plate text is 3mm in height

# E22 Series Cross-reference Tables

| Pushbutton, Indicator Light, and Selector Switch Cross Reference |                                                                                                    |                                                         |                                                             |                                                        |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|
| Cutler-Hammer                                                    | Allen-Bradley                                                                                      | Telemecanique<br>XB2B (chrome bezel) XA2B (black bezel) | GE C-2000                                                   | Siemens                                                |
| <b>Non-Illuminated Pushbuttons</b>                               |                                                                                                    |                                                         |                                                             |                                                        |
| <a href="#">E22PB1A</a>                                          | 800EPF2<br>800E3LX10                                                                               | ZA2BA2<br>ZA2BZ101                                      | P9XPNG10N0                                                  | 3SB1000-0AB01<br>3SB02-CBH<br>3SB1400-0B               |
| <a href="#">E22PB3A</a>                                          | 800EPF3<br>800E3LX10                                                                               | ZA2BA3<br>ZA2BZ101                                      | P9XPNG10N0                                                  | 3SB1000-0AE01<br>3SB02-CBH<br>3SB1400-0B               |
| <a href="#">E22EB2B</a>                                          | 800EPE4<br>800E3LX01                                                                               | ZA2BL4<br>ZA2BZ102                                      | P9XPNRS20N0                                                 | 3SB1000-0LC01<br>3SB02-CBH<br>3SB1400-0B               |
| <a href="#">E22ASB204</a>                                        | ENCLSR: 800E-2P<br>800EP-F3<br>800E-2LX10<br>800EP-E4<br>800E-2LX01<br>800E-34BE208<br>800E-34R212 | XALB211<br>Both flush - stop is not extended            | P9CPNRSN20N0<br>P9CPNVGN10N0 P9EPB02<br>P9AEPN201 P9AEPN202 | 3SB02-S21                                              |
| <b>Illuminated Pushbuttons</b>                                   |                                                                                                    |                                                         |                                                             |                                                        |
| <a href="#">E22TB2X4B</a>                                        | 800EPL4<br>800E3DL3<br>800E3X01                                                                    | ZA2BW14<br>ZA2BW06224                                   | P9XPLRSDN12NADI                                             | 3SB1001-0LC01<br>3SB02-CBH<br>3SB1400-0C<br>3SB1400-2H |
| <a href="#">E22TB3X4A</a>                                        | 800EPL3<br>800E3DL3<br>800E3X10                                                                    | ZA2B213<br>AZ2B206124                                   | P9XPLVSDN12NADI                                             | 3SB1001-0LE01<br>3SB02-CBH<br>3SB1400-0B<br>3SB1440-2H |
| <a href="#">E22TB9X4A</a>                                        | 800EPL5<br>800E3DL3<br>800E3X10                                                                    | ZA2BW15<br>ZA2BW06124                                   | P9XPLASDN12NADI                                             | 3SB1001-0LD01<br>3SB02-CBH<br>3SB1400-0B<br>3SB1400-2H |
| <a href="#">E22TB2X10B</a>                                       | 800EPL4<br>800E2RL5<br>800E3X01                                                                    | ZA2BW14<br>ZA2BW062120                                  | P9XPLRSB<br>P9PRNVJ<br>P9PDNVD                              | 3SB1001-0LC01<br>3SB02-CBH<br>3SB1400-0C               |
| <a href="#">E22TB3X10A</a>                                       | 800EPL3<br>800E2RL5<br>800E3X10                                                                    | ZA2BW13<br>ZA2BW061120                                  | P9XPLVSD<br>P9PRNVJ<br>P9PDNVD                              | 3SB02-UPR1P<br>3SB1910-0DE<br>3SB1400-0B               |
| <a href="#">E22TB9X10A</a>                                       | 800DPLE5<br>800E2RL5<br>800E3X10                                                                   | ZA2BW15<br>ZA2B2061120                                  | P9XPLASD<br>P9PRNVJ<br>P9PDNVD                              | 3SB02-UPR1P<br>3SB1910-0DD<br>3SB1400-0B               |

# GCX Series 22mm Plastic Pilot Devices

## Specifications

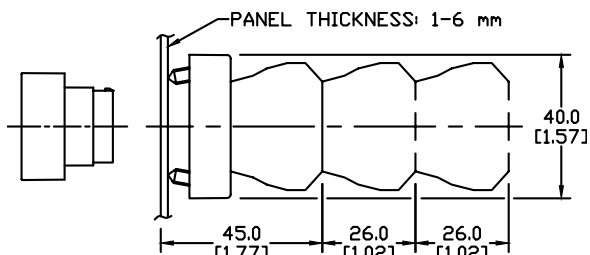
### Assembly information

These pushbuttons and indicator lights are supplied with the appropriate contact blocks, unless otherwise indicated. Use these drawings as a guide to make sure there is adequate clearance behind the panel.

### Dimensions

mm  
[inches]

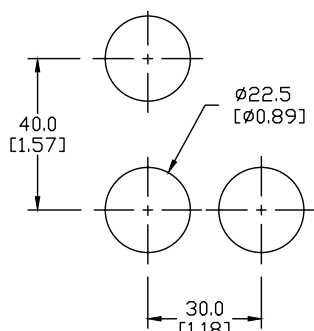
**Pushbuttons and selector switches**



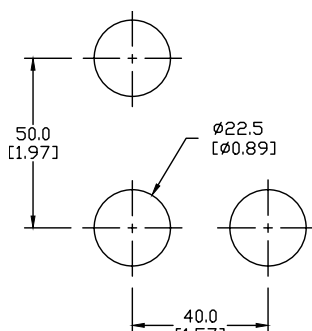
**Illuminated pushbuttons and selector switches/indicator lights**



### Mounting



**This layout is suitable if all switches are 230V or less and the same polarity.**

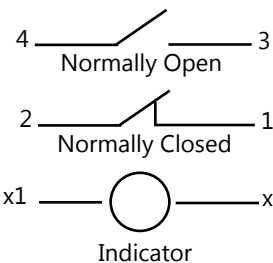


**This layout is suitable if all switches are 400V or less and different polarity.**

**NOTE:** Contact blocks can be arranged up to three deep by two wide.



Typical Wiring



### Specifications

These specifications apply to all the GCX and ECX 22mm plastic pushbuttons and switches.

| Physical Specifications           |                                                                                                                                                                                | Electrical Specifications                    |                                                                                                                                                                                                       |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standards Reference</b>        | CEI EN 60947-5-1, CSA C22-2 n.14                                                                                                                                               | <b>Rated Thermal Current (contact block)</b> | A300, Q300 (Refer to E22 Series mounting/contact rating section for details)                                                                                                                          |
| <b>Approvals</b>                  | UL File E189258, IMQ (where specified)                                                                                                                                         | <b>Rated Insulation Voltage</b>              | Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508                                                                                                                    |
| <b>Enclosure Material</b>         | Fiberglass reinforced thermoplastic                                                                                                                                            | <b>Dielectric Strength</b>                   | 3kV (1 second)                                                                                                                                                                                        |
| <b>Contacts Material</b>          | Silver                                                                                                                                                                         | <b>Insulation Resistance</b>                 | 2MΩ min. (500VDC)                                                                                                                                                                                     |
| <b>Protection Degree</b>          | IP40 for GCX3151-24, GCX3151-120, GCX3153-24 and GCX3153-120. IP65 for all others. (See Appendix of this catalog for explanation of IP ratings according to IEC 144 CEI 70-1.) | <b>Initial Contact Resistance</b>            | ≤ 25mΩ                                                                                                                                                                                                |
| <b>Electric Shock Protection</b>  | IEC 536, Class II                                                                                                                                                              | <b>Short-Circuit Protection*</b>             | Cartridge fuses gl 10 A-500V 10, 3x38/1 100 KA                                                                                                                                                        |
| <b>Temperature Ratings</b>        | Storage: -40 to 80°C (-40 to 176° F)<br>Operating: -25° to +70°C (-13° to 158° F)                                                                                              | <b>Terminal Markings</b>                     | According to CENELEC EN 50013                                                                                                                                                                         |
| <b>Working Positions</b>          | All working positions are allowed                                                                                                                                              | <b>Connections</b>                           | Single screw with non-loosening plate clamp, 14AWG max., Tighten to 0.8Nm max                                                                                                                         |
| <b>Mechanical Life</b>            | Pushbuttons, selector switches, joy stick switches: 1,000,000 operations<br>Emergency mushrooms and push-push pushbuttons: 300,000 operations                                  | <b>Contacts Operation</b>                    | Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow-action, positive opening                                                                                                                            |
| <b>Positive Opening Operation</b> | (according to IEC 947-5-1)<br>All functions incorporating an NC contact are positive opening operation                                                                         | <b>Operation Frequency</b>                   | 3600 operations per hour max.                                                                                                                                                                         |
|                                   |                                                                                                                                                                                | <b>Utilization Category</b>                  | AC15 (Control of AC electromagnetic loads)<br>24 volts AC at 10 amps<br>130 volts AC at 6.5 amps<br>DC13 (Control of DC electromagnetic loads)<br>24 volts DC at 1.5 amps<br>110 volts DC at 0.5 amps |

\*Note: Recommended, not supplied