

# PN4

## PN4

|                 |  |
|-----------------|--|
| Characteristics | <ul style="list-style-type: none"> <li>■ precision switching</li> <li>■ long mechanical life</li> <li>■ screw terminals</li> </ul> |
| Rating          | 250 VAC, 15 A  |
| Dimensions (mm) | 49 × 22 × 17.5   |
| Actuator        | <ul style="list-style-type: none"> <li>■ plunger</li> <li>■ plain lever</li> <li>■ roller lever</li> </ul>                         |
| Approvals       | UL, CSA  |



## Preferred Range

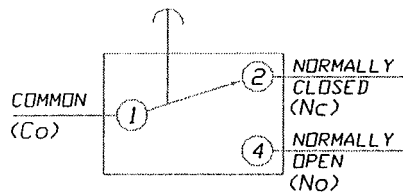
| Ordering Reference | Actuating Force (N) | Actuating Force (ozf) | Sealing | Operating pos. (mm) | Operating pos. (in) | Terminal     | Circuit | Actuator                               | Contacts | Electrical rating   |
|--------------------|---------------------|-----------------------|---------|---------------------|---------------------|--------------|---------|--|----------|---------------------|
| PN401              | 3.8                 | 13.7                  | IP40    | 16.0                | 0.63                | Screw/washer | CO      | Plunger                                | Ag       | Up to 250 VAC, 15 A |
| PN4D2              | 3.8                 | 13.7                  | IP40    | 22.2                | 0.87                | Screw/washer | CO      | Spring plunger                         | Ag       | Up to 250 VAC, 15 A |
| PN4K152            | 0.3                 | 1.08                  | IP40    | 25.0                | 1.00                | Screw/washer | CO      | Plain lever (length 152 mm, 6.0 in)    | Ag       | Up to 250 VAC, 15 A |
| PN4K63             | 0.9                 | 3.2                   | IP40    | 19.0                | 0.75                | Screw/washer | CO      | Plain lever (length 63.5 mm, 2.5 in)   | Ag       | Up to 250 VAC, 15 A |
| PN4KZ56            | 1.5                 | 5.4                   | IP40    | 8.5                 | 0.33                | Screw/washer | CO      | Reverse action plain lever             | Ag       | Up to 250 VAC, 15 A |
| PN4GK48            | 1.1                 | 4.0                   | IP40    | 30.2                | 1.19                | Screw/washer | CO      | Roller lever (length 48.2 mm, 1.90 in) | Ag       | Up to 250 VAC, 15 A |
| PN4GK26            | 1.7                 | 6.1                   | IP40    | 30.2                | 1.19                | Screw/washer | CO      | Roller lever (length 26.7 mm, 1.05 in) | Ag       | Up to 250 VAC, 15 A |
| PN41               | 3.8                 | 13.7                  | IP40    | 21.8                | 0.86                | Screw/washer | CO      | Long overtravel plunger                | Ag       | Up to 250 VAC, 15 A |
| PN4G               | 3.8                 | 13.7                  | IP40    | 33.3                | 1.31                | Screw/washer | CO      | Spring plunger, in-line roller         | Ag       | Up to 250 VAC, 15 A |
| PN4GH              | 3.8                 | 13.7                  | IP40    | 33.3                | 1.31                | Screw/washer | CO      | Spring plunger, across-line roller     | Ag       | Up to 250 VAC, 15 A |

## Specifications

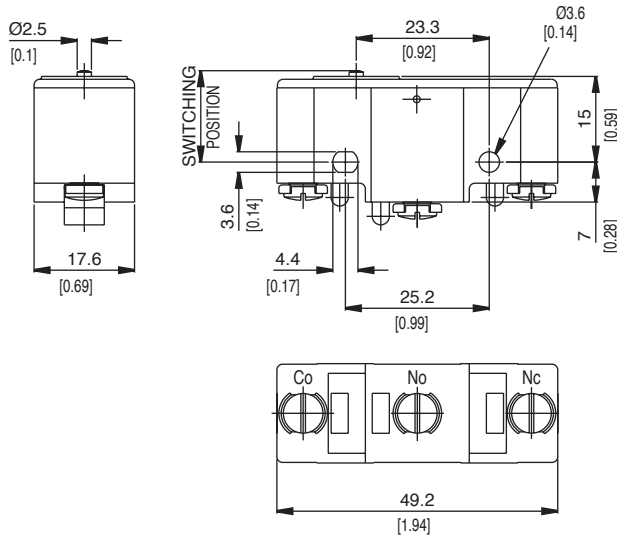
|                      |   |
|----------------------|---|
| Housing              | PBT thermoplastic polyester resin   |
| Plunger              | PBT thermoplastic polyester resin   |
| Mechanism            | Snap-action, single pole  |
| Functions            | Change-over   |
| Contacts             | Silver  |
| Terminals            | Screw terminals with cup washers  |
| Temperature range °C | -10°C to +85°C  |
| Mechanical life      | 10 <sup>6</sup> cycles minimum (impact free actuation)  |
| Protection           | IP 40 (enclosure)   |
| Mounting             | Side or panel mounting  |
| Actuators            | Plain levers - zinc-plated mild steel, Roller levers - zinc-plated mild steel, stainless steel roller |

Circuit diagram

DIAGRAM OF CONNECTIONS




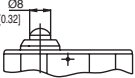
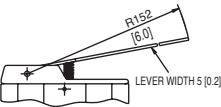
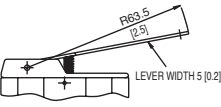
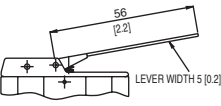
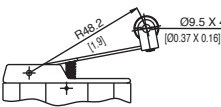
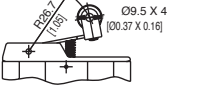
Dimensions



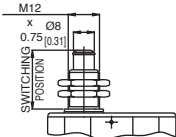
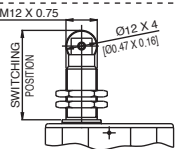
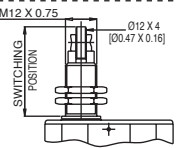
## Recommended maximum electrical ratings

| Voltage (max) | Load (A)     | Horsepower | Approval                                    |
|---------------|--------------|------------|---|
| 250 VAC       | 15 (0.75 pf) | -          | ULS 1054/CSA 22.2 No. 55 - 6,000 operations |
| 125 VAC       | 15 (0.75 pf) | -          | ULS 1054/CSA 22.2 No. 55 - 6,000 operations |
| 250 VAC       | -            | ¼ HP       | ULS 1054 - Horsepower - 6,000 operations    |
| 125 VAC       | -            | ¼ HP       | ULS 1054 - Horsepower - 6,000 operations    |
| 0 - 15 VDC    | 15           | -          | General rating - 50,000 operations          |
| 15 - 30 VDC   | 10           | -          | General rating - 50,000 operations          |

## Operating Characteristics

| Actuator  | Reference | Actuating Force Maximum |       | Release Force Minimum |       | Operating Position |              | Movement Differential Minimum |        | Over travel |       |
|---|-----------|-------------------------|-------|-----------------------|-------|--------------------|--------------|-------------------------------|--------|-------------|-------|
|   |           | (N)                     | (ozf) | (N)                   | (ozf) | (mm)               | (in)         | (mm)                          | (in)   | (mm)        | (in)  |
| Plunger<br>                      | PN401     | 3.8                     | 13.70 | 1.3                   | 4.7   | 16.0 ± 0.4         | 0.63 ± 0.016 | 0.02                          | 0.0008 | 0.2         | 0.008 |
| Spring plunger<br>               | PN4D2     | 3.8                     | 13.70 | 1.3                   | 4.7   | 22.2 ± 0.4         | 0.87 ± 0.016 | 0.04                          | 0.0016 | 2.3         | 0.09  |
| Plain lever<br>                  | PN4K152   | 0.3                     | 1.08  | 0.1                   | 0.36  | 25.5 ± 1.5         | 1.00 ± 0.060 | 3.0                           | 0.12   | 10.0        | 0.39  |
| Lever width: 5 mm, 0.2 in   |           |                         |       |                       |       |                    |              |                               |        |             |       |
| Plain lever<br>                  | PN4K63    | 0.9                     | 3.20  | 0.1                   | 0.36  | 19 ± 0.8           | 0.75 ± 0.032 | 1.2                           | 0.047  | 5.6         | 0.22  |
| Lever width: 5 mm, 0.2 in   |           |                         |       |                       |       |                    |              |                               |        |             |       |
| Reverse action plain lever<br> | PN4KZ56   | 1.5                     | 5.40  | 0.5                   | 1.80  | 8.5 ± 0.8          | 0.33 ± 0.032 | 1.0                           | 0.004  | 6.0         | 0.24  |
| Lever width: 5 mm, 0.2 in   |           |                         |       |                       |       |                    |              |                               |        |             |       |
| Roller lever<br>               | PN4GK48   | 1.1                     | 4.00  | 0.2                   | 0.72  | 30.2 ± 0.8         | 1.19 ± 0.032 | 0.9                           | 0.035  | 4.2         | 0.165 |
| Roller lever<br>               | PN4GK26   | 1.7                     | 6.11  | 0.2                   | 0.72  | 30.2 ± 0.8         | 1.19 ± 0.032 | 0.5                           | 0.02   | 2.0         | 0.079 |

## Operating Characteristics

| Actuator   | Reference | Actuating Force Maximum |       | Release Force Minimum |       | Operating Position |              | Movement Differential Minimum |        | Over travel |      |
|--|-----------|-------------------------|-------|-----------------------|-------|--------------------|--------------|-------------------------------|--------|-------------|------|
|  |           | (N)                     | (ozf) | (N)                   | (ozf) | (mm)               | (in)         | (mm)                          | (in)   | (mm)        | (in) |
| Long overtravel plunger<br>             | PN41      | 3.8                     | 13.70 | 1.3                   | 4.7   | 21.8 ± 0.7         | 0.86 ± 0.028 | 0.04                          | 0.0016 | 5.5         | 0.21 |
| Spring plunger - in-line roller<br>     | PN4G      | 3.8                     | 13.70 | 1.3                   | 4.7   | 33.3 ± 1.2         | 1.31 ± 0.047 | 0.04                          | 0.0016 | 3.5         | 0.14 |
| Spring plunger - across-line roller<br> | PN4GH     | 3.8                     | 13.70 | 1.3                   | 4.7   | 33.3 ± 1.2         | 1.31 ± 0.047 | 0.04                          | 0.0016 | 3.5         | 0.14 |

## Ordering Reference

|                  |   |  |    |
|------------------|---|--|----|
| Basic type       | PN4   | Example: PN4   | 01 |
| Actuators        | 01 Plain plunger<br>1 Panel mount plunger<br>D2 Spring plunger<br>G Plunger with in-line roller<br>GH Plunger with across-line roller<br>GK26 Roller lever 26.0 mm<br>GK35 Roller lever 35 mm<br>GK48 Roller lever 48.2 mm<br>GK63 Roller lever 63 mm<br>K48 Plain lever 48 mm<br>K63 Plain lever 63.5 mm<br>K63X Plain lever 63 mm without spring<br>K152 Plain lever 152.0 mm<br>KZ56 Reverse action roller lever 56.0 mm |  |    |
| Special Features | / <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>   | Burgess specialise in customer specific solutions.<br>Additional product variants are available or can be provided.<br>If your requirements cannot be satisfied from the options listed,<br>please contact <a href="http://www.saia-burgess.com">www.saia-burgess.com</a> or your local SB outlet. |    |

PN4 Terminal cover / Part No: 3.204.0222