

V4NC

V4NC

- Characteristics
- wide variety of levers
 - peg mounting option
 - pre-wired option
 - sealed (IP6K7)
 - solder and faston terminals
 - PCB terminals

Rating 250 VAC, 5 A

Dimensions (mm) 20 × 10.3 × 6.4

- Actuator
- plunger
 - plain levers
 - roller levers
 - simulated roller levers

Approvals none



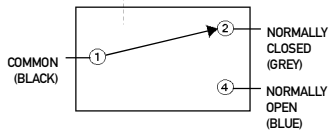
Preferred Range

| Ordering Reference | Actuating Force | | Sealing | Operating pos. | | Terminal | Circuit | Actuator | Contacts | Electrical rating |
|--------------------|-----------------|-------|--------------|----------------|-------|--------------|---------|--------------|----------|-------------------|
| | (N) | (ozf) | | (mm) | (in) | | | | | |
| V4NCT7 | 1.7 | 6.114 | No symbol | 8.40 | 0.331 | Solder | CO | Plunger | Ag | 250 VAC, 5 A |
| V4NCT7A1 | 0.8 | 2.877 | No symbol | 10.85 | 0.427 | Solder | CO | Plain lever | Ag | 250 VAC, 5 A |
| V4NCT7AR | 0.8 | 2.877 | No symbol | 16.00 | 0.630 | Solder | CO | Roller lever | Ag | 250 VAC, 5 A |
| V4NCS | 2.5 | 8.992 | Sealed IP6K7 | 8.40 | 0.331 | Cable 500 mm | CO | Plunger | Ag | 250 VAC, 5 A |
| V4NCSA1 | 0.9 | 3.237 | Sealed IP6K7 | 10.80 | 0.425 | Cable 500 mm | CO | Plain lever | Ag | 250 VAC, 5 A |
| V4NCSAR | 0.9 | 3.237 | Sealed IP6K7 | 15.90 | 0.626 | Cable 500 mm | CO | Roller lever | Ag | 250 VAC, 5 A |

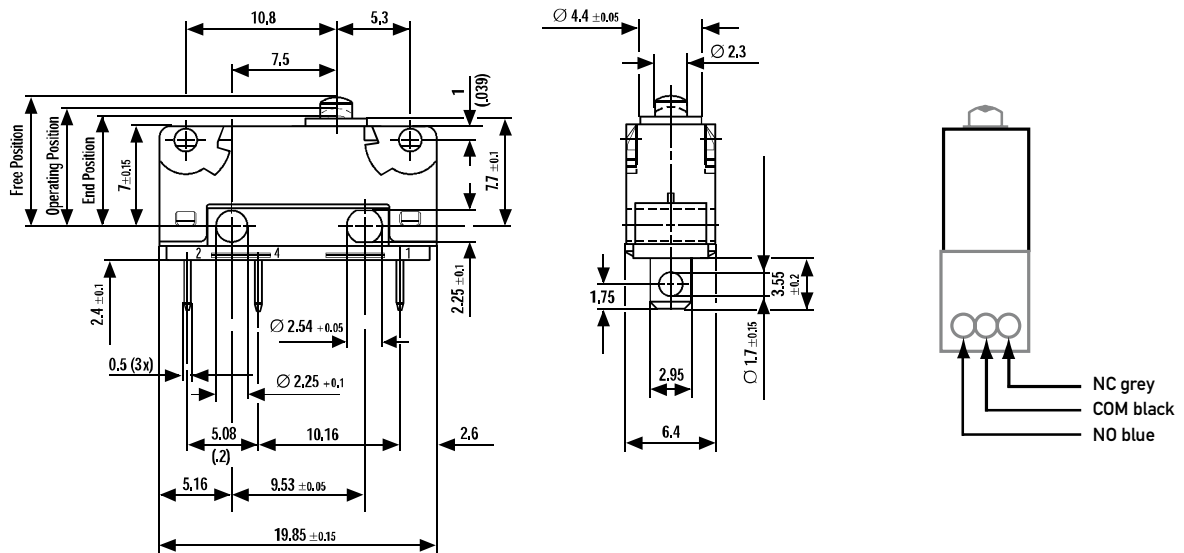
Specifications

| | |
|----------------------|---|
| Housing | Glass fibre reinforced Polyamide (PA 6.6) |
| Plunger | Polyacetal POM/(PA 4.6) |
| Mechanism | Snap-action coil spring mechanism with stainless steel spring |
| Functions | Change-over, normally closed or normally open |
| Contacts | Fine Silver, Gold plate on silver, Gold alloy on silver palladium (crosspoint) |
| Terminals | Gold flashed |
| Temperature range °C | -40°C to +85°C/120°C |
| Mechanical life | 5 × 10 ⁶ cycles minimum (impact free actuation) for the cowl 3 × 10 ⁶ |
| Protection | IP40, IP6K7 (depend on type), Flux-proof terminal entries (for all types) |
| Mounting | Side mounting (moulded mounting pegs on request) |
| Actuators | Plain lever, cam follower, roller lever, simulated roller (cam follower) lever |
| Accessories | Lug mounting frame, clip-on terminals cover, insulating sheet |

Circuit diagram

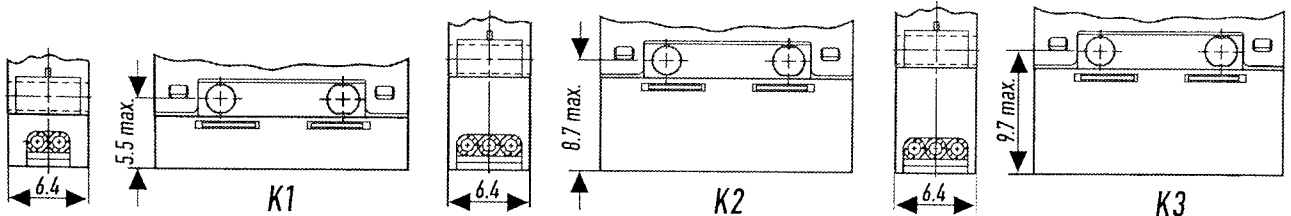


Dimensions



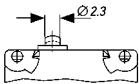
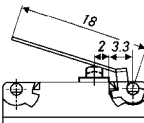
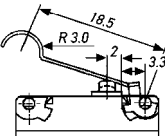
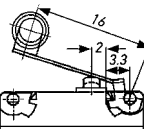
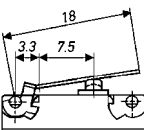
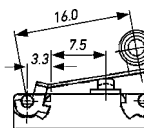
Prewired version with cable box

For type coding key please contact Saia



Standard cable FLRY 0.5 mm² with max. outside diameter 1.8 mm
Standard cable box is K2

Operating Characteristics

| Actuator | Reference | Actuating Force | | Release Force | | Free Position | | Operating Position | | Movement Differential | |
|--|-----------|-----------------|-------|---------------|-------|---------------|-------|--------------------|---------------|-----------------------|-------|
| | | Maximum (N) | (ozf) | Minimum (N) | (ozf) | Maximum (mm) | (in) | (mm) | (in) | Maximum (mm) | (in) |
|  Plunger | V4NC.. | 1,7 | 6,114 | 0,3 | 1,079 | 9,2 | 0,362 | 8,4 ± 0,3 | 0,331 ± 0,012 | 0,1 | 0,004 |
| | V4NCE.. | 1,7 | 6,114 | 0,3 | 1,079 | 9,7 | 0,382 | 8,9 ± 0,3 | 0,35 ± 0,012 | 0,1 | 0,004 |
| | V4NCS.. | 2,5 | 8,992 | 0,5 | 1,798 | 9,2 | 0,362 | 8,4 ± 0,3 | 0,331 ± 0,012 | 0,1 | 0,004 |
| | V4NCSE.. | 2,5 | 8,992 | 0,5 | 1,798 | 9,7 | 0,382 | 8,9 ± 0,3 | 0,35 ± 0,012 | 0,1 | 0,004 |
|  A1 Lever | V4NC.. | 0,8 | 2,877 | 0,07 | 0,251 | 13,4 | 0,527 | 10,85 ± 1,3 | 0,427 ± 0,051 | 0,4 | 0,016 |
| | V4NCE.. | 0,8 | 2,877 | 0,07 | 0,251 | 14,8 | 0,582 | 12,4 ± 1,3 | 0,488 ± 0,051 | 0,4 | 0,016 |
| | V4NCS.. | 0,9 | 3,237 | 0,1 | 0,359 | 13,4 | 0,527 | 10,8 ± 1,3 | 0,425 ± 0,051 | 0,4 | 0,016 |
| | V4NCSE.. | 0,9 | 3,237 | 0,1 | 0,359 | 14,8 | 0,582 | 12,4 ± 1,3 | 0,488 ± 0,051 | 0,4 | 0,016 |
| Width of lever 4,0mm/0,16 in | | | | | | | | | | | |
|  AC Lever | V4NC.. | 0,8 | 2,877 | 0,07 | 0,251 | 16,1 | 0,634 | 13,5 ± 1,3 | 0,531 ± 0,051 | 0,4 | 0,016 |
| | V4NCE.. | 0,8 | 2,877 | 0,07 | 0,251 | 17,6 | 0,693 | 15,1 ± 1,3 | 0,594 ± 0,051 | 0,4 | 0,016 |
| | V4NCS.. | 0,9 | 3,237 | 0,1 | 0,359 | 16,1 | 0,634 | 13,4 ± 1,3 | 0,527 ± 0,051 | 0,4 | 0,016 |
| | V4NCSE.. | 0,9 | 3,237 | 0,1 | 0,359 | 17,6 | 0,693 | 15,1 ± 1,3 | 0,594 ± 0,051 | 0,4 | 0,016 |
| Width of lever 4,0mm/0,16 in | | | | | | | | | | | |
|  AR Lever | V4NC.. | 0,8 | 2,877 | 0,07 | 0,251 | 18,1 | 0,712 | 16 ± 1,2 | 0,63 ± 0,047 | 0,4 | 0,016 |
| | V4NCE.. | 0,8 | 2,877 | 0,07 | 0,251 | 19,2 | 0,756 | 17,3 ± 1,2 | 0,681 ± 0,047 | 0,4 | 0,016 |
| | V4NCS.. | 0,9 | 3,237 | 0,1 | 0,359 | 18,1 | 0,712 | 15,9 ± 1,2 | 0,626 ± 0,047 | 0,4 | 0,016 |
| | V4NCSE.. | 0,9 | 3,237 | 0,1 | 0,359 | 19,2 | 0,756 | 17,3 ± 1,2 | 0,681 ± 0,047 | 0,4 | 0,016 |
| Width of lever 4,0mm/0,16 in | | | | | | | | | | | |
|  A10 Lever | V4NC.. | 1,3 | 4,676 | 0,13 | 0,467 | 10,7 | 0,421 | 9,4 - ± 0,7 | 0,37 ± 0,027 | 0,2 | 0,008 |
| | V4NCE.. | 1,3 | 4,676 | 0,13 | 0,467 | 11,5 | 0,453 | 10,2 ± 0,7 | 0,401 ± 0,027 | 0,2 | 0,008 |
| | V4NCS.. | 1,8 | 6,474 | 0,2 | 0,719 | 10,7 | 0,421 | 9,3- ± 0,7 | 0,366 ± 0,027 | 0,2 | 0,008 |
| | V4NCSE.. | 1,8 | 6,474 | 0,2 | 0,719 | 11,5 | 0,453 | 10,1 ± 0,7 | 0,397 ± 0,027 | 0,2 | 0,008 |
| Width of lever 4,0mm/0,16 in | | | | | | | | | | | |
|  AR0 Lever | V4NC.. | 1,3 | 4,676 | 0,13 | 0,467 | 15,8 | 0,622 | 14,7 ± 0,6 | 0,579 ± 0,023 | 0,2 | 0,008 |
| | V4NCE.. | 1,3 | 4,676 | 0,13 | 0,467 | 16,5 | 0,649 | 15,4 ± 0,6 | 0,606 ± 0,023 | 0,2 | 0,008 |
| | V4NCS.. | 1,8 | 6,474 | 0,2 | 0,719 | 15,8 | 0,622 | 14,7 ± 0,6 | 0,579 ± 0,023 | 0,2 | 0,008 |
| | V4NCSE.. | 1,8 | 6,474 | 0,2 | 0,719 | 16,5 | 0,649 | 15,4 ± 0,6 | 0,606 ± 0,023 | 0,2 | 0,008 |
| Width of lever 4,0mm/0,16 in | | | | | | | | | | | |

Operating characteristics shown above are specified from mounting hole centres.

Over travel: Flush with case. (7.8 mm min) The case should not be used as an end stop.

Ordering Reference

| | | | | | | | | |
|-------------------|---|---|--|----|----|----|---|---|
| Basic type | V4NC | Example: V4NC | B | T7 | C4 | A1 | 0 | G |
| Actuating Force | No symbol, standard force | | | | | | | |
| Type of sealing | No symbol, unsealed, standard travel | | | | | | | |
| | E | Unsealed with extended overtravel (0.5 mm) | | | | | | |
| | S | Sealed IP6K7 standard travel | | | | | | |
| | B | Sealed IP6K7 with extended overtravel (0.5 mm) | | | | | | |
| Terminals | No symbol, pre-wired 500 mm with cable box (V4NCS/B only) | | | | | | | |
| | T7 | Solder 2.95 × 0.5 × 3.55 long | | | | | | |
| | T8 | PCB 0.8 × 0.5 × 4.0 long | | | | | | |
| | T9 | Faston 2.8 × 0.5 × 9.5 long | | | | | | |
| | T81 | Formed PCB 0.8 × 0.5 × 3.8 long | | | | | | |
| | T82 | Formed PCB 0.8 × 0.5 × 3.8 long | | | | | | |
| | T84 | Short PCB 0.8 × 0.5 × 2.0 long | | | | | | |
| | T85 | Long PCB 0.8 × 0.5 × 6.85 long | | | | | | |
| | T11 | Welding/solder 2.95 × 0.5 × 3.55 long | | | | | | |
| Circuit | No symbol, change-over | | | | | | | |
| | C2 | Normally closed | | | | | | |
| | C4 | Normally open | | | | | | |
| Actuators | No symbol, without lever | | | | | | | |
| | A1 | Plain lever 18.0 mm | | | | | | |
| | A2 | Plain lever 25.0 mm | | | | | | |
| | A3 | Plain lever 32.0 mm | | | | | | |
| | A7 | Plain lever 60.0 mm | | | | | | |
| | AC | Cam follower lever 18.5 mm (AC1) | | | | | | |
| | AR | Roller lever 16.0 mm (AR1) | | | | | | |
| | AP | Roller lever 17.9 mm (AR2) | | | | | | |
| | PB | Push Button (see specification PBA4/QA4) | | | | | | |
| | QA | Push Button (see specification PBA4/QA4) | | | | | | |
| | Other actuators on special request | | | | | | | |
| Actuator Position | No symbol, without lever, or lever fitted at the end nearest to the Plunger | | | | | | | |
| | 0 | With lever fitted at end opposite to plunger | | | | | | |
| Contact Material | No symbol, Ag | | | | | | | |
| | G | Gold plate on silver (GP) | | | | | | |
| | X | Gold alloy on silver palladium crosspoint (AUX) | | | | | | |
| | Other contact materials on special request | | | | | | | |
| Special Features | / | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Saia specialise in customer specific solutions. Additional product variants are available or can be provided. If your requirements cannot be satisfied from the options listed, please contact www.saia-burgess.com or your local SB outlet. | | | | | |