

# V4NC

## Snap-action Microswitches

Subminiature

### V4NC

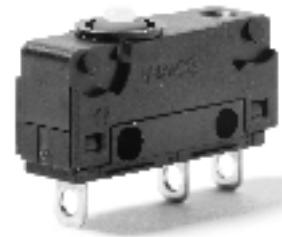
- Characteristics
- Peg mounting option
  - Solder terminals
  - 2.8 mm faston (quick connect) terminals
  - PCB terminals
  - Sealed (IP6K7) / unsealed (IP 40)
  - Pre-wired option
  - Snap-on terminal covers

Rating 250 VAC, 5 A

Dimensions (mm) V4NC 20 × 10,3 × 6,4  
V4NCS 20 × 10,3 × 6,4

Actuator Plunger, plain levers, roller levers

Approvals None



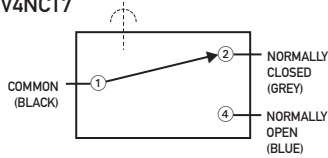
### Preferred Range

Ordering Reference	Actuating Force (N) (ozf)		Sealing	Operating pos. (mm) (in)		Terminal	Circuit	Actuator	Contacts	Electrical rating
V4NCT7	1.7	6.114	No digit	8,40	0,331	Solder	CO	Plunger	Fine silver	250 VAC, 5 A
V4NCT7A1	0.8	2.877	No digit	10,85	0,427	Solder	CO	Plain lever	Fine silver	250 VAC, 5 A
V4NCT7AR	0.8	2.877	No digit	16,00	0,630	Solder	CO	Roller lever	Fine silver	250 VAC, 5 A
V4NCS	2.5	8.992	Sealed IP67	8,40	0,331	Cable 500 mm	CO	Plunger	Fine silver	250 VAC, 5 A
V4NCSA1	0.9	3.237	Sealed IP67	10,80	0,425	Cable 500 mm	CO	Plain lever	Fine silver	250 VAC, 5 A
V4NCSAR	0.9	3.237	Sealed IP67	15,90	0,626	Cable 500 mm	CO	Roller lever	Fine silver	250 VAC, 5 A

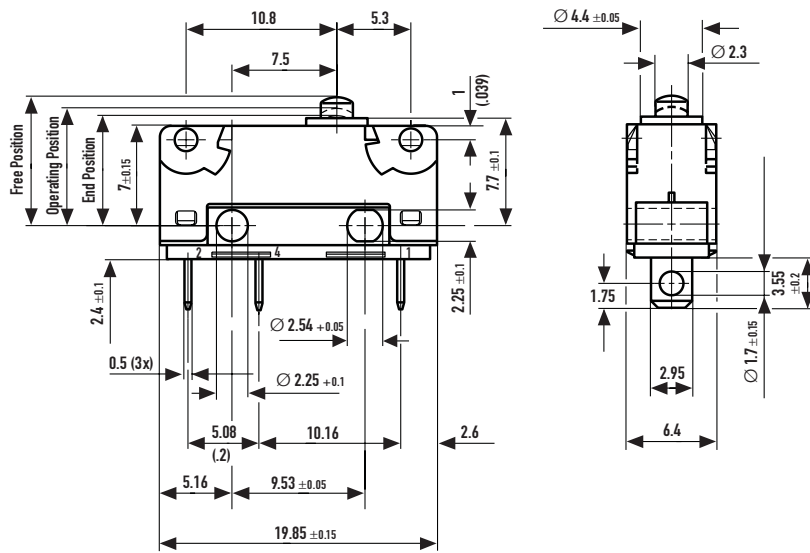
## Specifications

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 <sup>6</sup> cycles minimum (impact free actuation) for the cowl 3 × 10 <sup>6</sup>
Protection	IP40, IP67, Flux-proof terminal entries (depend on type)
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

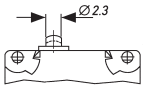
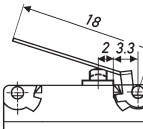
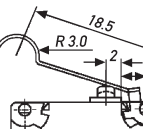
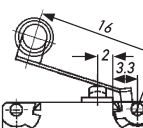
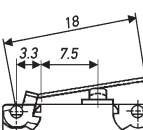
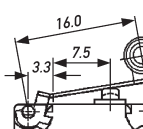
Circuit diagram V4NCT7



Dimensions



Operating Characteristics

Actuator	Reference	Actuating Force Maximum		Release Force Minimum		Free Position Maximum		Operating Position		Movement Differential Maximum	
		(N)	(ozf)	(N)	(ozf)	(mm)	(in)	(mm)	(in)	(mm)	(in)
	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
 <p>Width of lever 4,0mm/0,16 in</p>	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
 <p>Width of lever 4,0mm/0,16 in</p>	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
 <p>Width of lever 4,0mm/0,16 in</p>	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
 <p>Width of lever 4,0mm/0,16 in</p>	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
 <p>Width of lever 4,0mm/0,16 in</p>	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

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

Type	V4NC	
Actuating Force	No symbol	Standard force
Type of sealing	No symbol	Unsealed standard travel with extended overtravel (0,5 mm)
	E	Unsealed
	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 × 0.8 × 4.0 long
	T9	Faston 2.8 × 0.5 × 9.5 long
	T81	Bent PCB 0.8 × 0.5 × 3.8 long
	T82	Bent 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	Solder 2.95 × 0.5 × 3.55 long
	T	Special terminals (see specification)
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)
	Y1	Plain lever 18.0 mm
	Y2	Plain lever 25.0 mm
	Y3	Plain lever 32.0 mm
	YC	Cam follower lever 18.5 mm
	YR	Roller lever 16.0 mm (YR1)
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	Fine silver
	G	Gold plate on silver (GP)
	X	Gold alloy on silver palladium crosspoint (AUX)