V4NCS

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	Automotive standard

Preferred Range

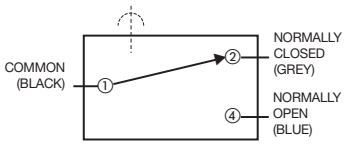
Ordering Reference	Actuating Force (N)	(ozf)	Sealing	Operating pos. (mm)	(in)	Terminal	Circuit	Actuator	Contacts	Electrical rating
V4NCS	2,5	8,992	Sealed IP6K7	8,40	0,331	Cable 500 mm	CO	Plunger	Ag	250 VAC, 5 A
V4NCSA1	0,9	3,237	Sealed IP6K7	10,80	0,425	Cable 500 mm	CO	Plain lever	Ag	250 VAC, 5 A
V4NCSAR	0,9	3,237	Sealed IP6K7	15,90	0,626	Cable 500 mm	CO	Roller lever	Ag	250 VAC, 5 A

V4NCS

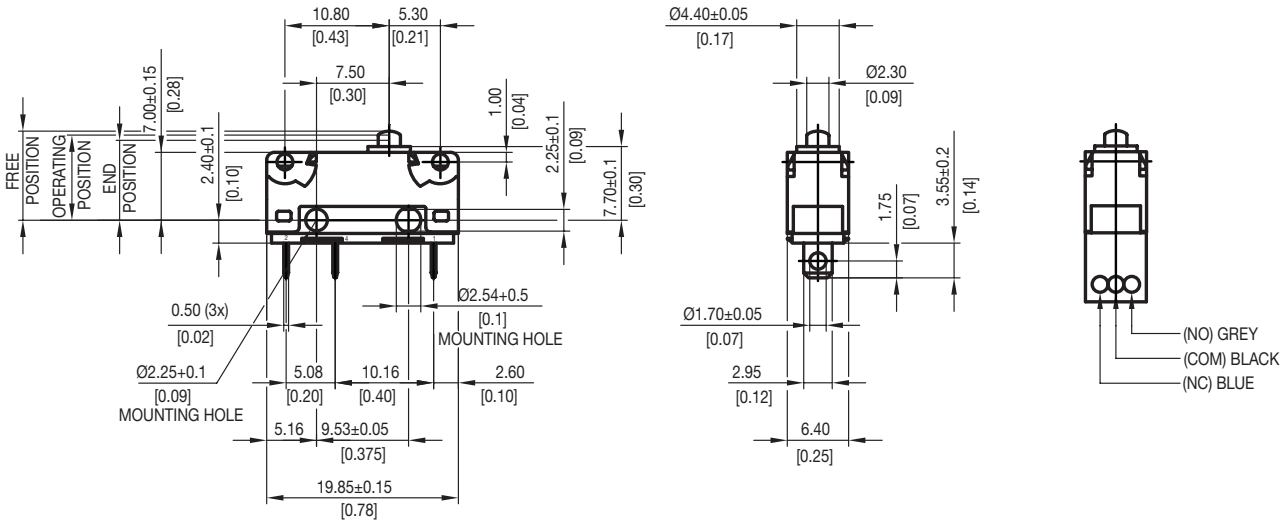
Specifications

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 option)
Mechanical life	3 × 10^6 cycles minimum (impact free actuation)
Protection	IP67 enclosure, IP40 Flux proof terminal entries
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

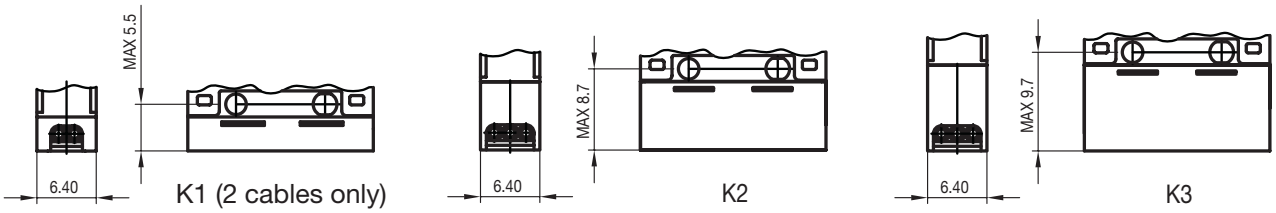


Dimensions



Prewired version with cable box
For type coding key please contact Saia

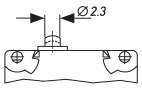
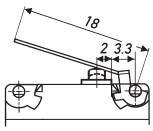
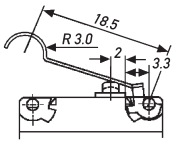
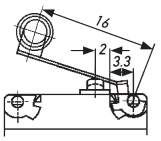
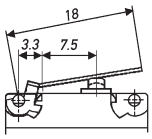
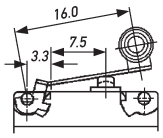
Standard cable FLRY 0,5 mm2 with max. outside diameter 1.8 mm
Standard cable box is K2



Recommended maximum electrical ratings

	Voltage (max)	Resitive load (A)	Motor load (A)	Approval
V4NCST	250 VAC	5	2	General rating (85° C)
	0 - 15 VDC	5	3	General rating (85° C)
	15 - 30 VDC	5	3	General rating (85° C)
V4NCS	250 VAC	5	2	General rating (85° C)
	0 - 15 VDC	3	3	General rating (85° C)
	15 - 30 VDC	3	3	General rating (85° C)

Operating Characteristics

Actuator	Reference	Actuating Force Maximum (N)	(ozf)	Release Force Minimum (N)	(ozf)	Free Position Maximum (mm)	(in)	Operating Position (mm)		(in)		Movement Differential Maximum (mm)	(in)
Plunger 	V4NCS..	2,5	8,992	0,5	1,798	9,2	0,362	8,4	± 1,3	0,331	± 0,012	0,1	0,004
	V4NCSB..	2,5	8,992	0,5	1,798	9,7	0,382	8,9		0,35		0,1	0,004
A1 Lever 	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
	V4NCSB..	0,9	3,237	0,1	0,359	14,8	0,582	12,4		0,488		0,4	0,016
Width of lever 4,0 (mm)/0,16 (in)													
AC Lever 	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
	V4NCSB..	0,9	3,237	0,1	0,359	17,6	0,693	15,1		0,594		0,4	0,016
Width of lever 4,0 (mm)/0,16 (in)													
AR Lever 	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
	V4NCSB..	0,9	3,237	0,1	0,359	19,2	0,756	17,3		0,681		0,4	0,016
Width of lever 4,0 (mm)/0,16 (in)													
A10 Lever 	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
	V4NCSB..	1,8	6,474	0,2	0,719	11,5	0,453	10,1		0,397		0,2	0,008
Width of lever 4,0 (mm)/0,16 (in)													
AR0 Lever 	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
	V4NCSB..	1,8	6,474	0,2	0,719	16,5	0,649	15,4		0,606		0,2	0,008
Width of lever 4,0 (mm)/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

				Example: V4NCS	B	T7	C4	A1	0	G
Basic type	V4NCS									
Type of sealing		No symbol, 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							
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)							
	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								
	X	Gold alloy on silver palladium crosspoint (AUX)								
Special Features	/□□□□	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.								