D3 miniature switch



Technical specifications

Contact configuration	S.P.D.T, S.P.S.T.-N.O., S.P.S.T.-N.C. (see table)
Conact gap	< 3 mm (μ) or > 3 mm
Switching voltage	250 V AC
Switched current max.	10 A (> 3 mm) or 16 A (< 3 mm, μ) (see table)
Total travel	2,6 mm without auxiliary actuator
Mechanical life	1 x 10^6 operations (> 3 mm) 10 x 10^6 operations (< 3 mm, μ)
Electrical life (max. load)	> 50.000 switching cycles acc. to EN 61058 > 10.000 switching cycles acc. to UL 1054 (>3 mm) > 6.000 sw. cycles acc. to UL 1054 (<3 mm, μ)
Ambient temperature	40T85
Proof tracking index	PTI 250
Materials	
Case/cover	PET (UL94 V-0)
Actuator	POM/PET
Contacts	AgNi
Terminals	Cu/CuZn
Auxiliary actuator	nickel-plated steel, alternative stainless steel
Approvals	

For detailed information and the layout of the details described above, please do not hesitate to ask for our technical specifications and drawing.

Features

- Standard switch proven millions of times over, extremely frictional, self-cleaning contacts
- Version with contact gap > 3 mm on an identical basis
- Flexible thanks to various auxiliary actuators and various mounting points
- Wide variety of terminal types
- Approved according to EN 61058 and UL 1054

Switching parameters

Model		Max. Operating force (cN)	Max. pretravel (mm)	Min. overtravel (mm)	Differential travel max. (mm)	Max. rest position (mm)	Operating point (mm)
Without auxiliary actuator	> 3 mm	500	1,9	0,7	1,2	16,0	14,4 ± 0,5
Without auxiliary actuator	< 3 mm	400	1,5	1,2	0,3	16,0	14,7 ± 0,5

Electrical rating and variants

Electrical rating according to		Availability				Housing mark
EN 61058	**UL 1054**	**S.P.S.T. - N.O**	**S.P.S.T. - N.C.**	**S.P.T.D**	**Contact gap**	
4 (3) A, 250 V AC	4 A, 125–250 V AC	yes	–	–	> 3 mm	D3 6
8 (8) A, 250 V AC	10 A, 125–250 V AC	–	yes	yes	> 3 mm	D3 B
10 (10) A, 250 V AC	10 A, 125–250 V AC	yes	–	–	> 3 mm	D3 F
16 (4) A, 250 V AC	16 A, 125–250 V AC	yes	yes	yes	< 3 mm (μ)	D3 8

Additional breaking capacities on request

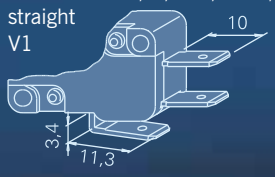


Preferred parts

Order code	Electrical rating EN	Electrical rating UL	Terminals	Auxiliary actuator	Operating force (cN)	Operating point (mm)	Max. pretravel (mm)	Min. overtravel (mm)	Differential travel max. (mm)
D364-V1AA	4 (3) A, 250 V AC	4 A, 125 - 250 V AC	Q.C. terminals 6,3 x 0,8 mm, straight	–	500	14,4 ± 0,5	1,9	0,7	1,2
D3B6-V3AA	8 (8) A, 250 V AC	10 A, 125 - 250 V AC	Q.C. terminals 6,3 x 0,8 mm, dog-leg	–	500	14,4 ± 0,5	1,9	0,7	1,2
D3F4-S8AA	10 (10) A, 250 V AC	10 A, 125 - 250 V AC	Solder terminals with temperature stop	–	500	14,4 ± 0,5	1,9	0,7	1,2
D3F4-V1AA	10 (10) A, 250 V AC	10 A, 125 - 250 V AC	Q.C. terminals 6,3 x 0,8 mm, straight	–	500	14,4 ± 0,5	1,9	0,7	1,2

Terminals

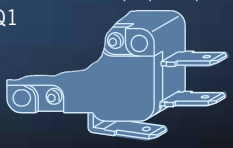
Q.C. terminals, 6,3 x 0,8 mm, straight
V1



Q.C. terminals, 6,3 x 0,8 mm, dog-leg
V3



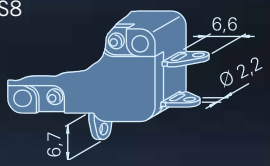
Q.C. terminals, 4,8 x 0,8 mm
Q1



Q.C. terminals, 4,8 x 0,8 mm
dog-leg
Q3



Solder terminals
S8

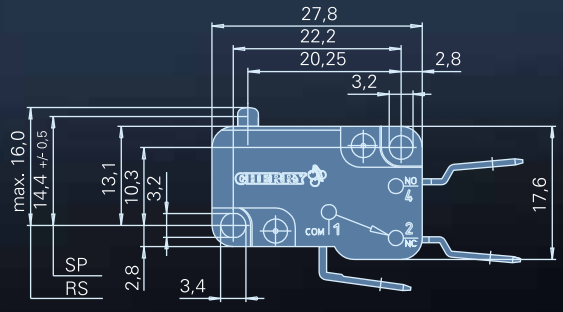


Screw terminals
W9



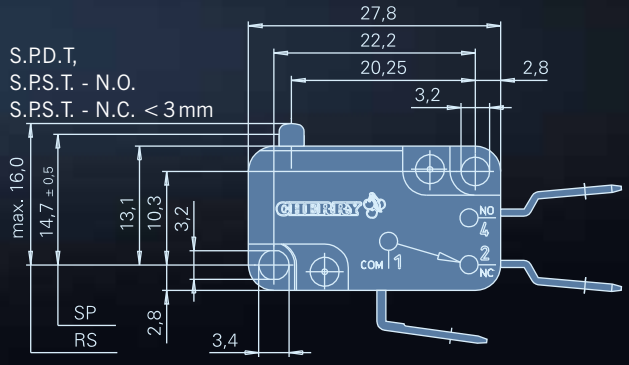
Dimensions in mm

S.P.D.T,
S.P.S.T. - N.C. > 3 mm





S.P.D.T,
S.P.S.T. - N.O.
S.P.S.T. - N.C. < 3 mm





Screw terminals W9