

D3 MINIATURE SWITCH

D3 miniature switch

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 points
- Approved according to EN 61058 and UL 1054



Technical specifications

Series	D3
Contact configuration	S.P.S.T.-N.O., S.P.S.T.-N.C., S.P.D.T. (see table)
Contact gap	> 3 mm
Switching voltage	250 VAC
Switching current max.	10 A (> 3 mm)
Total travel	2.6 mm without auxiliary actuator
Mechanical life	1 x 10 ⁶ operations
Electrical life at max. load	50,000 switching cycles acc. to EN 61058-1 10,000 switching cycles acc. to UL 1054
Ambient temperature	40T85
Proof tracking index	PTI 250

Material

Housing/cover	PET (UL 94V-0)
Actuator	POM
Contact materials	AgNi
Terminals	Cu/CuZn
Auxiliary actuator	Nickel-plated steel, alternative stainless steel
Approvals	

Circuitry

Circuitry		Code
S.P.S.T.-N.O.	(only D3F and D36)	4
S.P.S.T.-N.C.	(only D3B)	5
S.P.D.T.	(only D3B)	6

Terminal type

Terminal type	Code
Q.C. terminal 6.8 x 0.8 mm, straight	V1
Q.C. terminal 6.8 x 0.8 mm, dog leg	V3
Q.C. terminal 4.8 x 0.8 mm, straight	Q1
Q.C. terminal 4.8 x 0.8 mm, dog leg	Q3
Solder terminal with temperature stop	S8

Auxiliary actuator

Model	Mounting point	Length	Code	Code
Without auxiliary actuator			AA	
Material			Nickel-plated steel	Optional stainless steel
Straight	RM rear	21.2	LA	JA
		35.6	LD	JD
	FM front	69.9	LL	JL
		25.7	MA	KA
Roller	RM rear	40.1	MD	KD
		74.4	ML	KL
	FM front	20.6	RA	
		34.1	RD	
Simulated roller	25.1	TA		
	38.6	TD		
Simulated roller	RM rear	20.6	SA	
	FM front	25.1	UA	

Generation of order code (example)
The order code consists of 5 parameters:

1	2	3	4	5
Series	Electrical rating	Circuitry	Terminal type	Auxiliary actuator
D3 = Miniature switch	6 = 4 (3) A, 250 VAC	2 = S.P.S.T.-N.C.	Q1 = Q.C. terminal, straight 4.8 x 0.8 mm	MA = Straight, FM front, 25.7

- Not every configurable variant is available for order. Please contact us.
- The final two digits of article numbers on commercial documents refer to the index of the respective drawing.
- Customer-specific models are marked with a G or W as the sixth digit of the article number.

Electrical rating and variants

Electrical rating according to	Availability	Housing mark	Code
EN 61058	UL 1054	S.P.S.T.-N.O. S.P.S.T.-N.C. S.P.D.T.	
4 (3) A, 250 VAC	4 A, 125-250 VAC	Yes - -	D3 6
8 (8) A, 250 VAC	10 A, 125-250 VAC	- Yes Yes	D3 B
10 (10) A, 250 VAC	10 A, 125-250 VAC	Yes - -	D3 F

Additional breaking capacities on request

Switching parameters

Model	Operating force max. (cN)	Max. pretravel (mm)	Min. overtravel (mm)	Max. Differential travel (mm)	Max. rest position (mm)	Operating point (mm)
Without auxiliary actuator	500	1.9	0.7	1.2	16.0	14.4 ± 0.5

