

Features

Mounting holes

Dimensions in mm



Technical drawing of the V1 component, showing a side view with dimensions 4.6, 13.2, and 10.

Q1



X5

Y5

14

5

5

RAST 5

Technical drawing of the V3 connector showing dimensions: 13.3, 15.1, 15°, and 2.7.

Q3



Technical drawing of a mechanical part, labeled B8. The drawing shows a side view of the part. Dimensions are indicated: a horizontal distance of 3,25 from the left edge to the center of the first hole, a horizontal distance of 3,4 from the center of the first hole to the center of the second hole, and a hole diameter of $\phi 2$.

PA

3.5

2.9

2.15

Technical drawing of the P4 component, showing a side view with dimensions: 3,3, 2,5, 19,5, and 5.



PB: Polybutadiene

P5

5,6

5,6

5,75

Technical drawings of a mechanical part showing four views: front, top, left side, and right side. The part is a rectangular block with a central hole and a smaller hole on the side. Dimensions are given in millimeters.

- Front View (Top Left):** Shows a rectangular block with a central hole. The total width is 20 mm. The distance from the left edge to the center of the hole is 7.8 mm. The distance from the center of the hole to the right edge is 1.8 mm. The total height is 4.3 mm. The distance from the bottom edge to the center of the hole is 4.4 mm. The distance from the center of the hole to the top edge is 5.6 mm.
- Top View (Bottom Left):** Shows the top of the block. The total width is 20 mm. The distance from the left edge to the center of the hole is 7.8 mm. The distance from the center of the hole to the right edge is 1.8 mm. The total height is 4.3 mm. The distance from the bottom edge to the center of the hole is 4.4 mm. The distance from the center of the hole to the top edge is 5.6 mm.
- Left Side View (Top Right):** Shows the left side of the block. The total width is 19.5 mm. The distance from the left edge to the center of the hole is 7.65 mm. The distance from the center of the hole to the right edge is 1.8 mm. The total height is 4.3 mm. The distance from the bottom edge to the center of the hole is 4.4 mm. The distance from the center of the hole to the top edge is 5.6 mm.
- Right Side View (Bottom Right):** Shows the right side of the block. The total width is 19.5 mm. The distance from the left edge to the center of the hole is 7.65 mm. The distance from the center of the hole to the right edge is 1.8 mm. The total height is 4.3 mm. The distance from the bottom edge to the center of the hole is 4.4 mm. The distance from the center of the hole to the top edge is 5.6 mm.



D4 miniature switch

Electrical rating and operating life

Electrical rating according to		Electrical life for 40T85*		Mechanical lifetime actuator material		Max. operating force (cN)	Housing mark
EN 61058-1	UL 1054	acc. to EN	acc. to UL	POM	PET		
Standard operating force							
0,1 (0,05) A, 250 VAC	0,1 A 125–250 VAC	50.000	6.000	10x10 ⁶	1x10 ⁶	170	D4 1 Y
3 (1) A, 250 VAC	3 A, 125–250 VAC 1/10 HP 250 VAC	50.000	6.000	10x10 ⁶	1x10 ⁶	170	D4 2 Y
6 (2) A, 250 VAC	5 A, 125–250 VAC, 1/4 HP 250 VAC	50.000	6.000	5x10 ⁶	25x10 ⁴	170	D4 3 Y
10 (3) A, 250 VAC	10 A, 1/2 HP, 125–250 VAC	50.000	6.000	1x10 ⁶	1x10 ⁵	285	D4 4 Y
16 (4) A, 250 VAC	15 A, 1/2 HP, 125–250 VAC	50.000	6.000	2x10 ⁵	1x10 ⁵	400	D4 5 Y
10 (3) A, 400 VAC							
Light operating force							
0,1 (0,05) A, 250 VAC	0,1 A, 125–250 VAC	50.000	6.000	10x10 ⁶	1x10 ⁶	45**	D4 1 X
3 (1) A, 250 VAC	3 A, 125–250 VAC, 1/10 HP 250 VAC	50.000	6.000	10x10 ⁶	1x10 ⁶	45**	D4 2 X
6 (2) A, 250 VAC	5 A, 125–250 VAC, 1/4 HP 250 VAC	50.000	6.000	10x10 ⁶	5x10 ⁵	45	D4 3 X
10 (3) A, 250 VAC	10 A, 1/2 HP, 125–250 VAC	50.000	6.000	10x10 ⁶	25x10 ⁴	75	D4 4 X
16 (4) A, 250 VAC	15 A, 1/2 HP, 125–250 VAC	50.000	6.000	10x10 ⁶	25x10 ⁴	100	D4 5 X
21 (8) A, 250 VAC	21 A, 250 VAC 1HP 125VAC 2HP 250VAC	10.000	6.000	3x10 ⁶	25x10 ⁴	150	D4 8 X

* Operating life for 40T125 and 40T150 on request
** Lower operating forces and additional electrical ratings on request

Switching parameters

Model	Type	Max. operating force (cN)		Max. pretravel (mm)	Min. overtravel (mm)	Differential travel max. (mm)	Max. rest position (mm)	Operating point (mm)
		Standard	Light					
Without auxiliary actuator	D41	170	45	1,2	1,3	0,3	16,2	14,7 ± 0,5
	D42	170	45	1,2	1,3	0,3	16,2	14,7 ± 0,5
	D43	170	45	1,2	1,3	0,3	16,2	14,7 ± 0,5
	D44	285	75	1,2	1,3	0,3	16,2	14,7 ± 0,5
	D45	400	100	1,2	1,3	0,3	16,2	14,7 ± 0,5
	D48	–	150	1,6	1,2	0,3	16,2	14,7 ± 0,5

Preferred parts

Type	Order code	Electrical rating		Terminals	Auxiliary actuator	Operating force (cN)	Operating point (mm)	Max. pretravel (mm)	Min. overtravel (mm)	Differential travel max. (mm)
		EN	UL							
US mounting holes	D41C-R1AA*	0.1(0.05)A, 250V~	0,1 A, 125/250 VAC	Q.C. terminals 4,8x0,5mm, straight	–	170	14,7 ± 0,5	1,2	1,3	0,3
	D41C-R1LD*	0.1(0.05)A, 250V~	0,1 A, 125/250 VAC	Q.C. terminals 4,8x0,5mm, straight	Straight RM rear, length 35,6mm	86	15,3 ± 1,2	3,2	2,2	0,8
	D42L-R1ML	3(1)A, 250V~	3 A, 125/250 VAC 1/10HP, 250VAC	Q.C. terminals 4,8x0,5mm, straight	Straight FM front, length 74,5mm	6	15,2 ± 4,2	12,7	7,9	2,5
	D44L-R1AA	10(3)A, 250V~	10 A, 1/2HP, 125/250 VAC	Q.C. terminals 4,8x0,5mm, straight	–	75	14,7 ± 0,5	1,2	1,3	0,3
	D44L-R1LD	10(3)A, 250V~	10 A, 1/2HP, 125/250 VAC	Q.C. terminals 4,8x0,5mm, straight	Straight RM rear, length 35,6mm	40	15,3 ± 1,2	3,2	2,2	0,8
	D44L-R1RA	10(3)A, 250V~	10 A, 1/2HP, 125/250 VAC	Q.C. terminals 4,8x0,5mm, straight	Roller RM rear, length 20,6 mm	75	20,5 ± 0,8	1,2	1,0	0,3
International mounting holes	D45L-R1LL	16(4)A, 250V~	15 A, 1/2HP, 125/250 VAC	Q.C. terminals 4,8x0,5mm, straight	Straight RM rear, length 69,9mm	22	15,2 ± 3,2	7,6	4,7	1,7
	D419-V3AA	0.1(0.05)A, 250V~	0,1 A, 125/250 VAC	Q.C. terminals 6,3x0,8mm, dog-leg	–	45	14,7 ± 0,5	1,2	1,3	0,3
	D429-V1AA	3(1)A, 250V~	3 A, 125/250 VAC 1/10HP, 250VAC	Q.C. terminals 6,3x0,8mm, straight	–	45	14,7 ± 0,5	1,2	1,3	0,3
	D449-V1AA	10(3)A, 250V~	10 A, 1/2HP, 125/250 VAC	Q.C. terminals 6,3x0,8mm, straight	–	75	14,7 ± 0,5	1,2	1,3	0,3
	D459-B8AA	16(4)A, 250V~	15 A, 1/2HP, 125/250 VAC	Solder terminals, short	–	100	14,7 ± 0,5	1,2	1,3	0,3
	D459-V3AA	16(4)A, 250V~	15 A, 1/2HP, 125/250 VAC	Q.C. terminals 6,3x0,8mm, dog-leg	–	100	14,7 ± 0,5	1,2	1,3	0,3
	D459-V3LD	16(4)A, 250V~	15 A, 1/2HP, 125/250 VAC	Q.C. terminals 6,3x0,8mm, dog-leg	Straight RM rear, length 35,6mm	40	15,3 ± 1,2	3,2	2,2	0,8
	D489-V3AA	16(4)A, 250V~	15 A, 1/2HP, 125/250 VAC	Q.C. terminals 6,3x0,8mm, dog-leg	–	150	14,2 ± 0,5	1,8	0,9	0,3

* Versions with standard operating force; other versions with operating force light

Auxiliary actuator options

Model	Mounting point	Length (mm)
Straight	RM rear	21,2
		35,6
	FM front	69,9
		25,7
		40,1
Roller	RM rear	74,4
		20,6
	FM front	34,1
		25,1
Simulated Roller	RM rear	38,6
	FM front	20,6
		25,1

