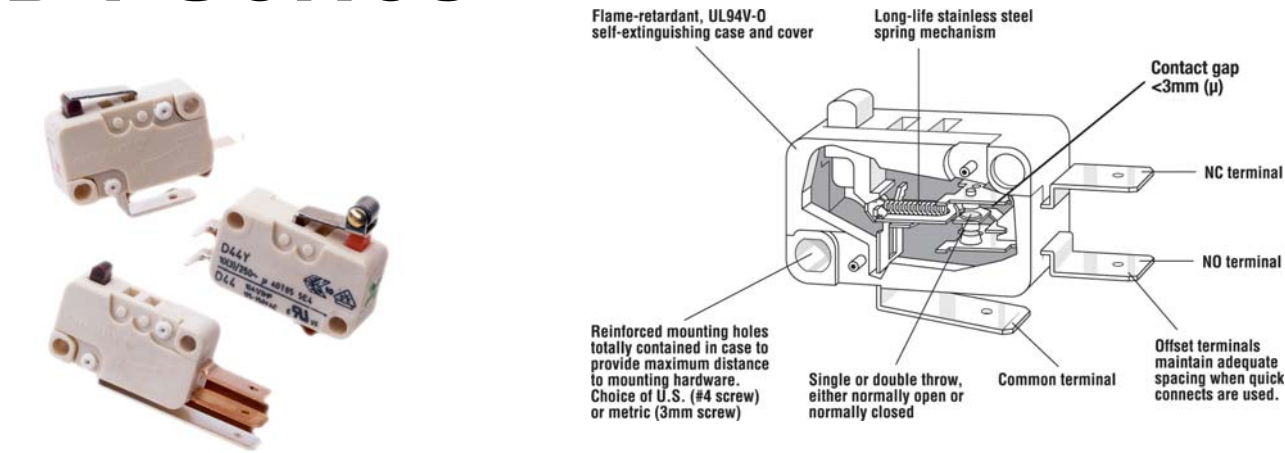


D4 Series



Features

- 6 current ratings
- Various terminal configurations
- Agency approved extended life versions

Electrical Ratings

Switch Series	EN61058 Rating	UL1054 Rating	Electrical Life at Rated Load at 85° C	
			According to EN (Min. Operations)	According to UL (Min. Operations)
D41	0.1(0.05)A, 250V~; 0.5A 30VDC	0.1A, 125/250VAC; 0.5A 30VDC, 1A 125VAC <i>(6k life only)</i>	50,000	6,000*
D42	3(1)A, 250V~	3A, 125/250VAC; 1/10HP, 250VAC	50,000	6,000*
D43	6(2)A, 250V~	5A, 125/250VAC, 1/4HP, 250VAC	50,000	6,000*
D44	10(3)A, 250V~	10A, 1/2HP, 125/250VAC	50,000	6,000*
D45	16(4)A, 250V~ 10(3)A, 400V~ <i>(Std. force only)</i>	15A, 1/2HP, 125/250VAC	50,000	6,000*
D48	21(8)A, 250V~	21A, 250VAC; 1HP, 125VAC; 2HP, 250VAC	10,000	6,000

Operating life for 125°C and 150°C available upon request.

*Denotes extended life versions available

Electrical Specifications

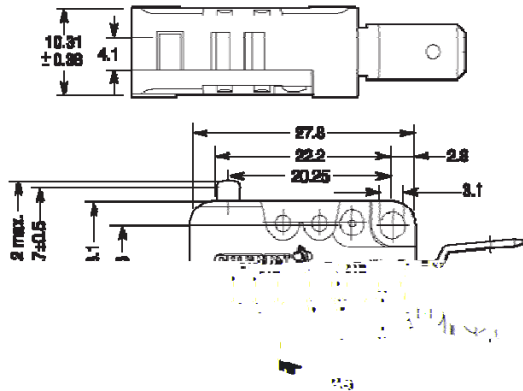
Temperature Rating:	-40° to +85°C, 125°C or 150°C	Flammability Rating:	UL 94V-0
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Materials

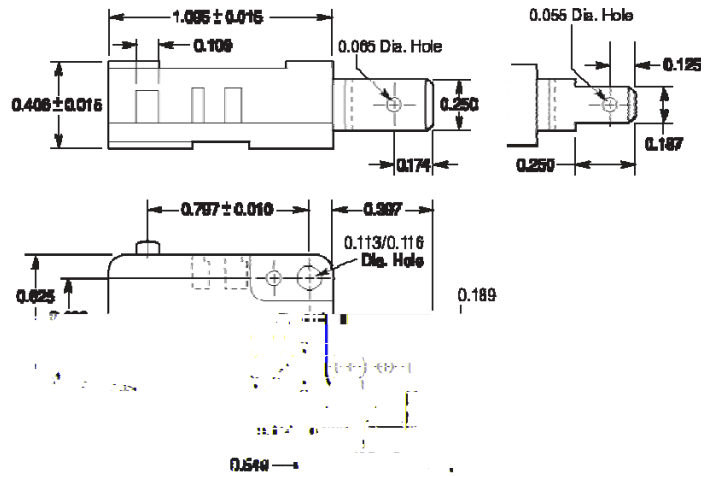
Case/Cover:	Thermoplastic Polyester (PET)	NO/NC Terminals	Brass
Actuating Button:	Thermoplastic Acetal (POM), 85°C	Moving Blade:	Silver Plated Brass
	Thermoplastic Polyester (PET), 125°C or 150°C		Gold Crosspoint (D41)
Auxiliary Actuator:	Stainless Steel or Cold-Rolled Steel (Nickel-Plated)	Contacts:	Silver (D42)
Common Terminal:	Brass		Silver Alloy (D43-D48)

D4 Series

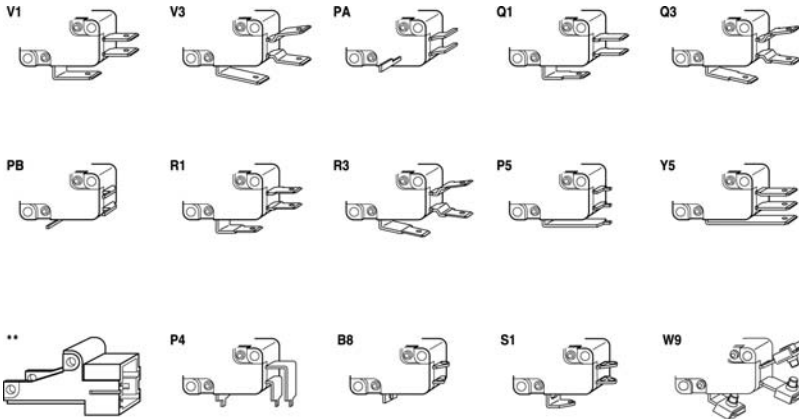
European Version (mm)



U.S. Version (Inches)



Terminals



* Connector part #823-0518 (mates with Y5 only)

** Connector housing for RAST 5 QC terminals

Actuators

Many special forms and lengths of actuators are available. Standard type integral hinged lever and roller actuators are available in choice of 2 mounting positions. Actuation lengths are dimensioned from centerline of switch mounting hole as shown below.

Identifiers

Switches with a "standard" operating force are identified by a 'Y' next to the standard model description, e.g. D43Y.

Switches with a "light" operating force are identified by an 'X' next to the standard model description, e.g. D43X.

Switches with 100,000 cycles approved per UL1054 are marked with 'L' in circle.

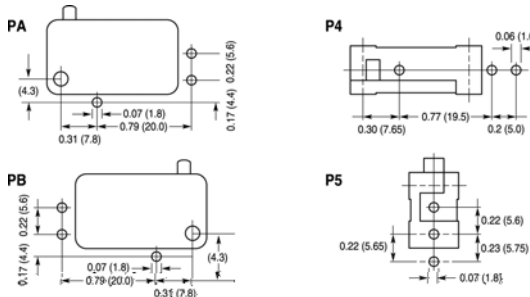
Mounting — US Version

Recommended mounting screw size: #4-40 Round head with washer. Recommended torque on screw: 60 NCM max.

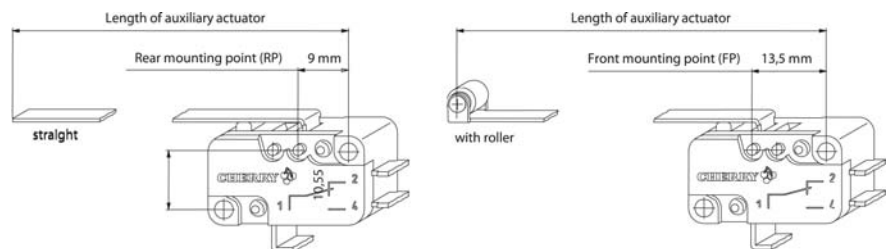
Mounting — European Version

Recommended mounting screw size with washer: M3. Recommended torque on screw: 60 NCM max.

Drilling Patterns for PCB Terminals



Length of Auxiliary Actuator



D4 Series

Commonly Stocked Distributor Items

Item Number	EN Rating	UL Rating	Terminals	Maximum Operating Force (cN)	Maximum Pretravel inches (mm)	Operating Point inches (mm)	Minimum Overtravel inches (mm)	Max. Movement Differential inches (mm)	Actuation Length inches (mm)	Housing Mark
D41CR1AA	0.1 (0.05) A, 250 VAC 0.5 A, 30 VDC 1(1) A, 250 VAC	0.1 A, 125/250 VAC 0.5 A, 30 VDC 1 A, 125 VAC	0.187" x 0.020"	170	0.047" (1.2)	0.559 / 0.599 (14.2 / 15.2)	0.05" (1.3)	0.012" (0.3)	N/A	D41Y
D41CR1LA	0.1 (0.05) A, 250 VAC 0.5 A, 30 VDC 1(1) A, 250 VAC	0.1 A, 125/250 VAC 0.5 A, 30 VDC 1 A, 125 VAC	0.187" x 0.020"	190	0.047" (1.2)	0.579" / .618" (14.7 / 15.7)	0.035" (0.9)	0.012" (0.3)	0.835" (21.2)	D41Y
D41CR1LD	0.1 (0.05) A, 250 VAC 0.5 A, 30 VDC 1(1) A, 250 VAC	0.1 A, 125/250 VAC 0.5 A, 30 VDC 1 A, 125 VAC	0.187" x 0.020"	86	0.126" (3.2)	0.551" / 0.646" (14.0 / 16.4)	0.090" (2.3)	0.031" (0.8)	1.40" (35.6)	D41Y
D41CR1RA	0.1 (0.05) A, 250 VAC 0.5 A, 30 VDC 1(1) A, 250 VAC	0.1 A, 125/250 VAC 0.5 A, 30 VDC 1 A, 125 VAC	0.187" x 0.020"	190	0.047" (1.2)	0.776" / 0.839" (19.7 / 21.3)	0.039" (1.0)	0.012" (0.4)	0.811" (20.6)	D41Y
D41LR1AA	0.1 (0.05) A, 250 VAC 0.5 A, 30 VDC 1(1) A, 250 VAC	0.1 A, 125/250 VAC 0.5 A, 30 VDC 1 A, 125 VAC	0.187" x 0.020"	45	0.047" (1.2)	0.559" / 0.599" (14.2 / 15.2)	0.05" (1.3)	0.012" (0.3)	N/A	D41X
D42LR1AA	3(1) A, 250 VAC	3A, 125/250 VAC, 1/10 HP, 250 VAC	0.187" x 0.020"	45	0.047" (1.2)	0.559" / 0.599" (14.2 / 15.2)	0.05" (1.3)	0.012" (0.3)	N/A	D42X
D42LRGAA	3(1) A, 250 VAC	3A, 125/250 VAC, 1/10 HP, 250 VAC	0.187" x 0.020"	2	0.500" (12.7)	0.433" / 0.764" (11.0 / 19.4)	0.311" (7.9)	0.098" (2.5)	2.93" (74.4)	D42X
D43CR1AA	6(2) A, 250 VAC	5A, 125/250 VAC 1/4 HP, 250 VAC	0.187" x 0.020"	170	0.047" (1.2)	0.559" / 0.599" (14.2 / 15.2)	0.05" (1.3)	0.012" (0.3)	N/A	D43Y
D44CR1AA	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	285	0.047" (1.2)	0.559" / 0.599" (14.2 / 15.2)	0.05" (1.3)	0.012" (0.3)	N/A	D44Y
D44CR1LD	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	144	0.126" (3.2)	0.551" / 0.646" (14.0 / 16.4)	0.090" (2.3)	0.031" (0.8)	1.40" (35.6)	D44Y
D44CR1RA	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	330	0.047" (1.2)	0.776" / 0.839" (19.7 / 21.3)	0.039" (1.0)	0.012" (0.4)	0.811" (20.6)	D44Y
D44CR1RD	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	144	0.126" (3.2)	0.764" / 0.850" (19.4 / 21.6)	0.087" (2.2)	0.031" (0.8)	1.34" (34.1)	D44Y
D44LR1AA	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	75	0.047" (1.2)	0.559" / 0.599" (14.2 / 15.2)	0.05" (1.3)	0.012" (0.3)	N/A	D44X
D44LR1LD	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	40	0.126" (3.2)	0.551" / 0.646" (14.0 / 16.4)	0.090" (2.3)	0.031" (0.8)	1.40" (35.6)	D44X
D44LR1LL	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	17	0.030" (7.6)	0.472" / .724" (12.0 / 18.4)	0.185" (4.7)	0.067" (1.7)	2.75" (69.9)	D44X
D44LR1MD	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	25	0.020" (5.1)	0.535" / 0.661" (13.6 / 16.8)	0.142" (3.6)	0.051" (1.3)	1.58" (40.1)	D44X
D44LR1ML	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	10	0.050" (12.7)	0.433" / .763" (11.0 / 19.4)	0.311" (7.9)	0.098" (2.5)	2.92" (74.4)	D44X
D44LR1RA	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	75	0.047" (1.2)	0.776" / 0.839" (19.7 / 21.3)	0.039" (1.0)	0.012" (0.4)	0.811" (20.6)	D44X
D44LR1RD	10(3) A, 250 VAC	10 A, 1/2 HP, 125/250 VAC 6 A, 30 VDC	0.187" x 0.020"	40	0.126" (3.2)	0.764" / 0.850" (19.4 / 21.6)	0.087" (2.2)	0.031" (0.8)	1.34" (34.1)	D44X
D45CR1AA		15 A, 1/2 HP, 125/250 VAC	0.187" x 0.020"	400	0.047" (1.2)	0.559" / 0.599" (14.2 / 15.2)	0.05" (1.3)	0.012" (0.3)	N/A	D45Y
D45LR1AA		15 A, 1/2 HP, 125/250 VAC	0.187" x 0.020"	100	0.047" (1.2)	0.559" / 0.599" (14.2 / 15.2)	0.05" (1.3)	0.012" (0.3)	N/A	D45X
D45LR1LL		15 A, 1/2 HP, 125/250 VAC	0.187" x 0.020"	22	0.030" (7.6)	0.472" / .724" (12.0 / 18.4)	0.185" (4.7)	0.067" (1.7)	2.75" (69.9)	D45X
D45LR1ML		15 A, 1/2 HP, 125/250 VAC	0.187" x 0.020"	13	0.050" (12.7)	0.433" / .763" (11.0 / 19.4)	0.311" (7.9)	0.098" (2.5)	2.92" (74.4)	D45X

D4 Series

Ordering Information

D4			3			Q			1			L			D		
Series/Prefix																	
Electrical Rating			Code			Terminal			Terminal			Code			Code		
Actuator	EN60558-1	UL 1054	Configuration	Operating Force	Temperature Rating	Mounting	Head	Type	Configuration	Length in mm	Availability	Head	Type	Configuration	Length in mm	Availability	Head
1	0.1(0.5)A, 250 VAC 0.5 A, 30 VDC; 1.1(1)A, 250 VAC	0.1 A, 125-250 VAC 0.5 A, 30 VDC; 1 A, 125 VAC	SPST NO	Standard	T85	U.S. Version	A	Welding	1	35,6	without	A	Welding	1	35,6	without	A
2	3(1)A, 250 VAC	3 A, 125-250 VAC 1/30 HP, 250 VAC	SPST NC	Standard	T85	U.S. Version	B	Solder, short	3	35,6	without	B	Solder, short	3	35,6	without	B
3	6(2)A, 250 VAC	6 A, 125-250 VAC 1/4 HP, 250 VAC	SPDT	Light	T125	U.S. Version	C	PCB	4	35,6	without	C	PCB	4	35,6	without	C
4	10(3)A, 250 VAC	10 A, 125-250 VAC 6A 30 VDC; 1/2 HP, 125-250 VAC	SPST NO	Standard	T125	U.S. Version	D	Tab: 4.8x0.8	5	35,6	without	D	Tab: 4.8x0.8	5	35,6	without	D
5	16(4)A, 250 VAC	16 A, 125-250 VAC 1 HP, 125-250 VAC	SPST NC	Light	T125	U.S. Version	E	Tab: 4.8x0.8	6	35,6	without	E	Tab: 4.8x0.8	6	35,6	without	E
8	21(8) A, 250 VAC	21 A, 250 VAC 1 HP, 125 VAC; 2 HP, 250 VAC	SPST NO	Standard	T150	U.S. Version	F	Solder with Temp. Stop	8	40,1	with roller	F	Solder with Temp. Stop	8	40,1	with roller	F
			SPST NC	Standard	T150	U.S. Version	G	Tab: 6.3x0.8	9	40,1	with roller	G	Tab: 6.3x0.8	9	40,1	with roller	G
			SPDT	Light	T125	U.S. Version	H	Screw	A	25,1	with simulated roller	H	Screw	A	25,1	with simulated roller	H
			SPST NO	Light	T125	U.S. Version	I	Tab: 6.3x0.8 RAST 5	B	25,1	with simulated roller	I	Tab: 6.3x0.8 RAST 5	B	25,1	with simulated roller	I
			SPST NC	Light	T125	U.S. Version	J					J					J
			SPDT	Standard	T85	U.S. Version	K					K					K
			SPST NO	Standard	T85	U.S. Version	L					L					L
			SPST NC	Standard	T85	U.S. Version	M					M					M
			SPDT	Standard	T85	U.S. Version	N					N					N
			SPST NO	Standard	T85	U.S. Version	O					O					O
			SPST NC	Standard	T85	U.S. Version	P					P					P
			SPDT	Standard	T85	U.S. Version	Q					Q					Q
			SPST NO	Standard	T85	U.S. Version	R					R					R
			SPST NC	Standard	T85	U.S. Version	S					S					S
			SPDT	Standard	T85	U.S. Version	T					T					T
			SPST NO	Standard	T85	U.S. Version	U					U					U
			SPST NC	Standard	T85	U.S. Version	V					V					V
			SPDT	Standard	T85	U.S. Version	W					W					W
			SPST NO	Standard	T85	U.S. Version	X					X					X
			SPST NC	Standard	T85	U.S. Version	Y					Y					Y
			SPDT	Standard	T85	U.S. Version	Z					Z					Z

Specifications subject to change without notice

Mounting — US Version

Recommended mounting screw size: #4-40 Round head with washer. Recommended torque on screw: 60 NCM max.

Mounting — European Version

Recommended mounting screw size with washer: M3.
Recommended torque on screw: 60 NCM max.



Notes:

- D48 only available as light force
- D45 not VDE approved with terminal code 'R'
- D48 only available with terminal codes 'A', 'S', or 'V'

Contact

Call, fax or visit our
Website for more information.

ZF Electronics Corporation
11200 88th Avenue
Pleasant Prairie, WI 53158

Phone: 262.942.6500
Web: www.cherrycorp.com

Email: cep_sales@zf.com
Fax: 262.942.6566

Last Updated: 081712

The manufacturer accepts no liability for errors or non-availability, and reserves the right to change specifications without prior notice.

Technical data relates to product specifications only. Features may differ from those described. Only drawings combined with product specifications shall be deemed binding.

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