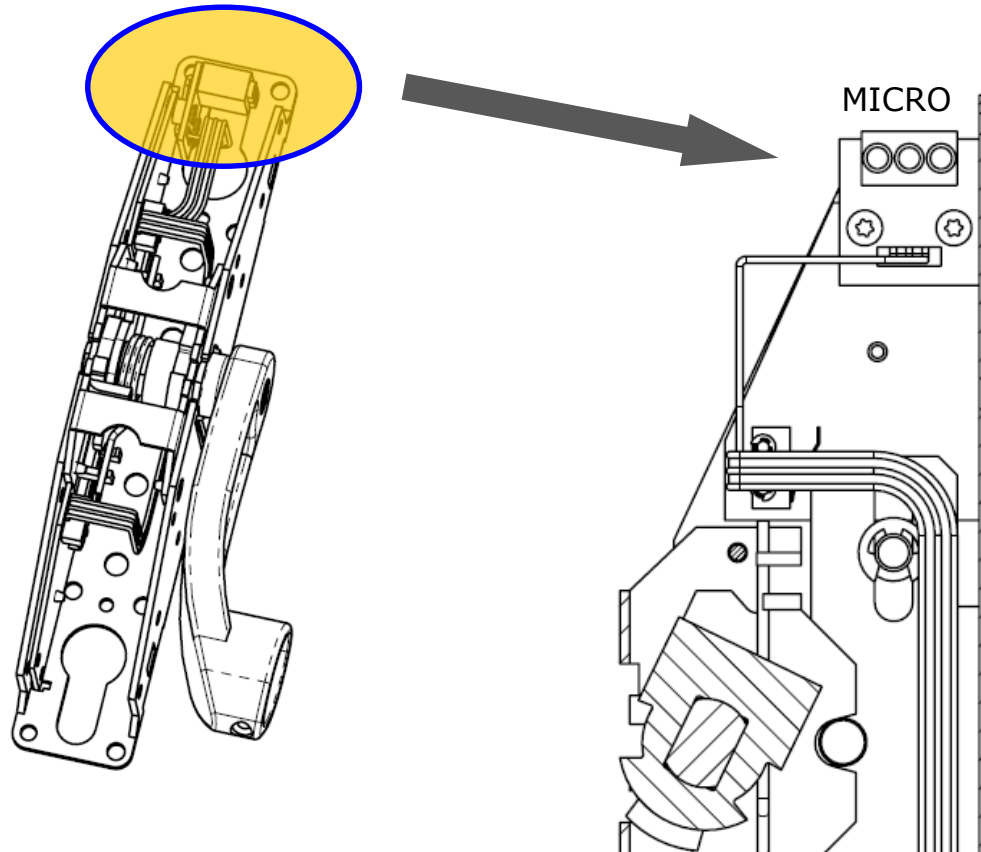


ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

UNIVERSAL WITH MICROSWITCH CONNECTING DIAGRAM

UNIVERSAL WITH MICROSWITCH

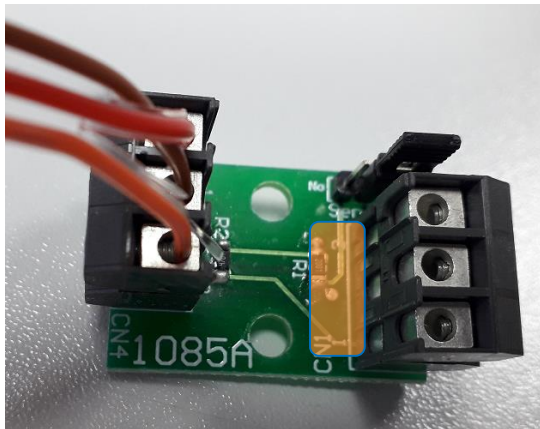
- HINGE SIDE SUPPORT WITH MICROSWITCH



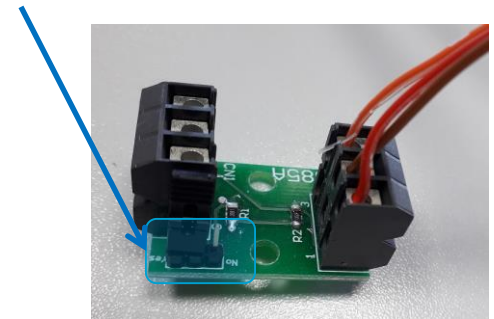
UNIVERSAL WITH MICROSWITCH

■ MICROSWITCH CONNECTING DIAGRAM

- THERE IS A MICROSWITCH (OMRON D2F-L3D) IN THE HINGE SIDE SUPPORT OF THE PED WITCH GIVES AN OUT-PUT WHEN THE PED IS OPERATED.
- THE CONNECTION CAN BE DONE AS FOLLOWS:
 1. POSITIVE LOGIC → THE SIGNAL IS OBTAINED BETWEEN **PIN#1 AND PIN#3** WHEN THE PANIC EXIT DEVICE IS OPERATED → NO
 2. NEGATIVE LOGIC → THE SIGNAL IS OBTAINED BETWEEN **PIN#1 AND PIN#2** WHEN THE PANIC EXIT DEVICE IS NON-OPERATED, AND CUT-OFF WHEN THE BAR IS OPERATED → NC



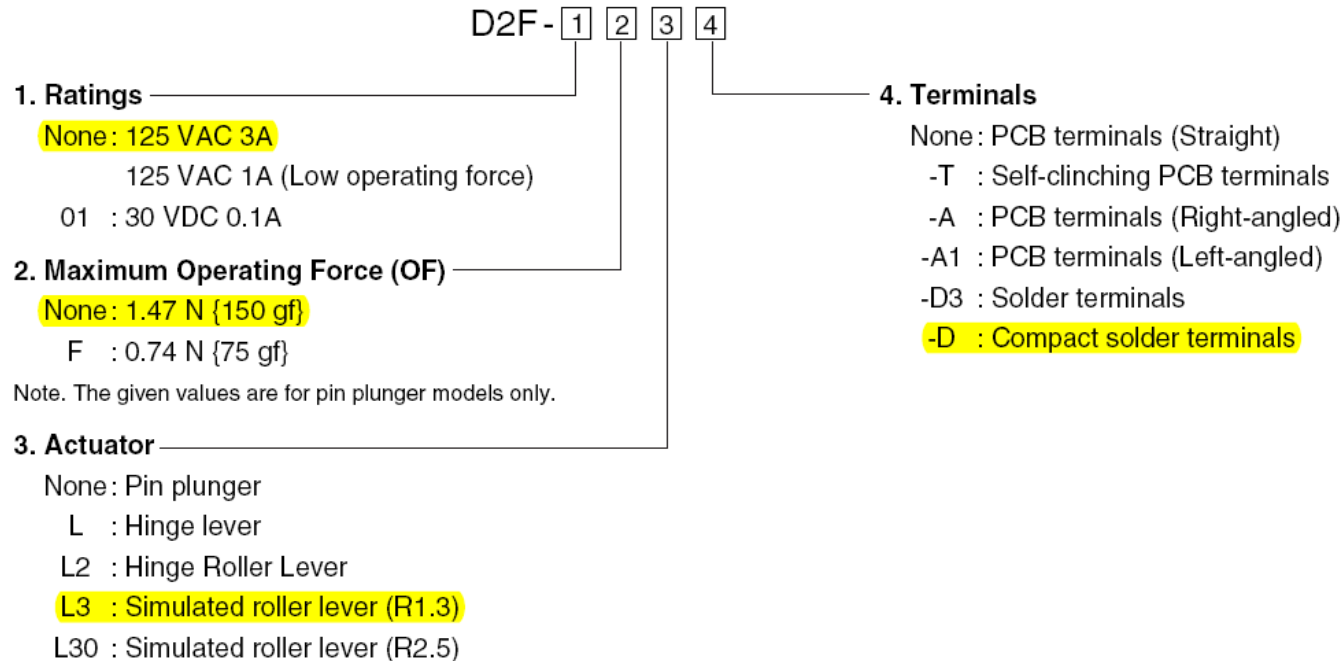
NO SENSED
signal to be used



UNIVERSAL WITH MICROSWITCH

■ MICROSWITCH FEATURES

OMRON D2F-L3D working conditions:



UNIVERSAL WITH MICROSWITCH

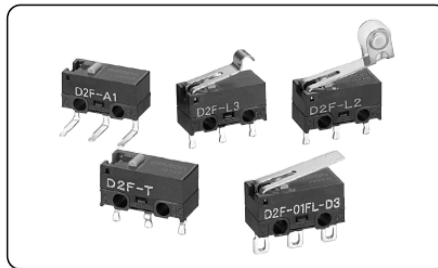
■ OMRON D2F-L3D MICROSWITCH FEATURES

D2F

Ultra Subminiature Basic Switch

Ultra Subminiature Basic Switch with plenty of terminal variations

- Incorporating a snapping mechanism made with two highly precise split springs that ensures long durability.
- Using insertion molded terminals that prevents flux penetration.
- In addition to self-clinching PCB, left-angled, right-angled terminals, 2 types of soldering terminals are available.



RoHS Compliant

Model Number Legend

D2F - 1 2 3 4

- 1. Ratings**
None: 125 VAC 3A
125 VAC 1A (Low operating force)
01 : 30 VDC 0.1A
 - 2. Maximum Operating Force (OF)**
None: 1.47 N (150 gf)
F : 0.74 N (75 gf)
- Note. The given values are for pin plunger models only.

- 3. Actuator**
None: Pin plunger
L : Hinge lever
L2 : Hinge Roller Lever
L3 : Simulated roller lever (R1.3)
L30 : Simulated roller lever (R2.5)

- 4. Terminals**
None: PCB terminals (Straight)
-T : Self-clinching PCB terminals
-A : PCB terminals (Right-angled)
-A1 : PCB terminals (Left-angled)
-D3 : Solder terminals
-D : Compact solder terminals

Contact Form

●SPDT



Contact Specifications

Item	Specifications	Model	
		D2F models	D2F-01 models
Contact		Crossbar	
	Material	Silver alloy	Gold alloy
	Gap (standard value)	0.25 mm	
Minimum applicable load (see note)*		100 mA at 5 VDC	1 mA at 5 VDC

* Please refer to "Using Micro Loads" in "Precautions" for more information on the minimum applicable load.

Ratings

Model	D2F models		D2F-01 models	
	1.47N (General-purpose)	0.74N (Low Operating Force)	1.47N (General-purpose)	0.74N (Low Operating Force)
Rated voltage	Resistive load			
125 VAC	3 A	1 A	-	
30 VDC	2 A	0.5 A	0.1 A	

Note. The above rating values apply under the following test conditions.
(1) Ambient temperature: 20±2°C
(2) Ambient humidity: 65±5%
(3) Operating frequency: 30 operations/min

Approved Safety Standard

The items shown in the "List of Models" above are not standard approved models. Consult your OMRON sales representative for specific models with standard approvals. **UL (UL1054) /CSA (CSA C22.2 No.55)**

Rated voltage	Model	D2F (General-purpose)	D2F (Low operating force)	D2F-01
125 VAC		3 A	1 A	-
30 VDC		2 A	0.5 A	0.1 A

Characteristics

Item	Model	D2F-01 models	D2F-F models	D2F models
Permissible operating speed		Pin plunger models: 1 mm to 500 mm/s, Lever models: 5 mm to 500 mm/s		
Permissible operating frequency	Mechanical	Pin plunger models: 200 operations/min, Lever models: 100 operations/min		
	Electrical	30 operations/min		
Insulation resistance		100 MΩ min. (at 500 VDC with insulation tester)		
Contact resistance (initial value)		100 mΩ max.	50 mΩ max.	30 mΩ max.
Item	Model	D2F-01 models	D2F-F models	D2F models
Dielectric strength	Between terminals of the same polarity	600 VAC 50/60 Hz for 1min		
	Between current-carrying metal parts and ground	1,500 VAC 50/60 Hz for 1min		
	Between each terminal and non-current-carrying metal parts	1,500 VAC 50/60 Hz for 1min		
Vibration resistance * 1	Malfunction	10 to 55 Hz, 1.5-mm double amplitude		
Shock resistance	Durability	1,000 m/s ² (approx. 100G) max.		
	Malfunction * 1	300 m/s ² (approx. 30G) max.		
Durability * 2	Mechanical	1,000,000 operations min. (60 operations/min)		
	Electrical	100,000 operations min. (30 operations/min)	30,000 operations min. (30 operations/min)	
Degree of protection		IEC IP40		
Ambient operating temperature		-25°C to +85°C (at ambient humidity 60% max.) (with no icing or condensation)		
Ambient operating humidity		85% max. (for +5°C to +35°C)		
Weight		Approx. 0.5 g (pin plunger models)		

Note. The data given above are initial values.
*1. The values are at Free Position and Total Travel Position values for pin plunger, and Total Travel Position value for lever. Close or open circuit of the contact is 1ms max.
*2. For testing conditions, consult your OMRON sales representative.



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