C73I-E-02

Smallest Class of Safety Limit Switches in the World

- The world's smallest limit switch with a direct opening mechanism (four-contact construction model).
- High-sensitivity safety limit switch.
- Built-in switches with two- or four-contact construction are available.
- Degree of protection: IP67
- Conforms to EN115-1, EN81-1 and EN81-2. (slow-action models only)
- Certified standards: UL, EN (TÜV), and CCC
- Conforms to ISO 14119



Be sure to read the "Safety Precautions" on page 6 and the "Precautions for All Safety Limit Switches".



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Model Number Structure

Model Number Legend

- 1. Built-in Switch
 - 1: 1NC/1NO (slow-action)
 - 2: 2NC (slow-action)
 - 3: 2NC/2NO (slow-action)
 - 4: 4NC (slow-action)
- 2. Actuator
 - 02: Roller plunger (Metal roller)
 - 20: Roller lever

(Metal lever, resin roller)

- 3. Cable Length
 - 1: 1 m
 - 3: 3 m 5: 5 m
- 4. Pull-outing direction of cable
 - R: Horizontal
 - D: Vertical

Ordering Information

List of Models

Safety Limit Switches (with Direct Opening Mechanism)

Consult with your OMRON representative when ordering any models that are not listed in this table.

	Cable length	Pull-outing direction of cable	Built-in switch							
Actuator			1NC/1NO (slow-action)		2NC (slow-action)		2NC/2NO (slow-action)		4NC (slow-action)	
			Model	Direct opening	Model	Direct opening	Model	Direct opening	Model	Direct opening
Roller lever (Metal lever, resin roller)	1 m	Horizontal	D4F-120-1R	\odot	D4F-220-1R	\odot	D4F-320-1R	\odot	D4F-420-1R	\odot
		Vertical	D4F-120-1D		D4F-220-1D		D4F-320-1D		D4F-420-1D	
	3 m	Horizontal	D4F-120-3R	\odot	D4F-220-3R	\odot	D4F-320-3R	\odot	D4F-420-3R	\odot
		Vertical	D4F-120-3D		D4F-220-3D		D4F-320-3D		D4F-420-3D	
	5 m	Horizontal	D4F-120-5R	\odot	D4F-220-5R	\odot	D4F-320-5R	\odot	D4F-420-5R	•
		Vertical	D4F-120-5D		D4F-220-5D		D4F-320-5D		D4F-420-5D	
Roller plunger (Metal roller)	1 m	Horizontal	D4F-102-1R	\odot	D4F-202-1R	\odot	D4F-302-1R	\odot	D4F-402-1R	\odot
		Vertical	D4F-102-1D		D4F-202-1D		D4F-302-1D		D4F-402-1D	
	3 m	Horizontal	D4F-102-3R	\odot	D4F-202-3R	\odot	D4F-302-3R	•	D4F-402-3R	•
		Vertical	D4F-102-3D		D4F-202-3D		D4F-302-3D		D4F-402-3D	
8	5 m	Horizontal	D4F-102-5R	\odot	D4F-202-5R	\odot	D4F-302-5R	•	D4F-402-5R	
		Vertical	D4F-102-5D		D4F-202-5D		D4F-302-5D		D4F-402-5D	\odot

Specifications

Standards and EC Directives Conforms to the following EC Directives:

- Machinery Directive
- Low Voltage Directive
- EN50047
- EN60204-1
- EN ISO 14119
- GS-ET-15

Certified Standards

Certification body	Standards	File No.
TÜV SÜD	EN60947-5-1 (certified direct opening)	*1
UL *2	UL508 CSA C22.2 No.14	E76675
CQC (CCC) *3	GB14048.5	20030103050 64266

^{*1.} Contact your OMRON sales representative.

Certified Standard Ratings TÜV (EN60947-5-1), CCC (GB14048.5)

Item	Utilization category	AC-15	DC-13
Rated o	perating current (I _e)	0.75 A	0.27 A
Rated operating voltage (Ue)		240 V	250 V

Note: Use a 10 A fuse type ${\rm gI}$ or ${\rm gG}$ that conforms to IEC60269 as a short-circuit protection device.

UL/CSA (UL508, CSA C22.2 No. 14) C300

Rated	Carry current	Curre	nt (A)	Volt-amperes (VA)		
voltage		Make	Break	Make	Break	
120 VAC 240 VAC	2.5 A	15 7.5	1.5 0.75	1,800	180	

Q300

Rated	Carry current	Curre	nt (A)	Volt-amperes (VA)		
voltage		Make	Break	Make	Break	
125 VDC 250 VDC	2.5 A	0.55 0.27	0.55 0.27	69	69	

^{*2.} Certification has been obtained for CSA C22.2 No. 14 under UL.

^{*3.} Ask your OMRON representative for information on certified models.