

Popular Safety Limit Switches Providing a Full Lineup Conforming to International Standards

- Lineup includes models with 1NC/1NO, 2NC, 2NC/1NO and 3NC contact forms.
(Slow-action models with MBB contacts are available.)
- M12-connector models are also available, saving on labor and simplifying replacement.
- Standardized gold-clad contacts provide high contact reliability.
Can be used with both standard loads and microloads.
- Conforms to the requirements for safety contacts in EN 115-1, EN 81-20, and EN 81-50 (slow-action models only).
- Certified standards: UL, EN (TÜV), and CCC

 Be sure to read the "Safety Precautions" on page 17.

Note: Contact your sales representative for details on models with safety standard certification.



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-Conduit Models

D4N-
1 2 3

1. Conduit size

- 1: Pg13.5
- 2: G1/2
- 4: M20
- 9: M12 connector

2. Built-in Switch

- 1: 1NC/1NO (snap-action)
- 2: 2NC (snap-action)
- A: 1NC/1NO (slow-action)
- B: 2NC (slow-action)
- C: 2NC/1NO (slow-action)
- D: 3NC (slow-action)
- E: 1NC/1NO (MBB contact) (slow-action)
- F: 2NC/1NO (MBB contact) (slow-action)

3. Head and Actuator

- 20: Roller lever (resin lever, resin roller)
- 22: Roller lever (metal lever, resin roller)
- 25: Roller lever (metal lever, metal roller)
- 26: Roller lever (metal lever, bearing roller)
- 2G: Adjustable roller lever, form lock (metal lever, resin roller)
- 2H: Adjustable roller lever, form lock (metal lever, rubber roller)
- 31: Plunger
- 32: Roller Plunger
- 62: One-way roller arm lever (horizontal)
- 72: One-way roller arm lever (vertical)
- 80: Cat whisker
- 87: Plastic rod
- RE: Fork lever lock (right operation)
- LE: Fork lever lock (left operation)

2-Conduit Models

D4N-
1 2 3

1. Conduit size

- 6: G1/2
- 8: M20

2. Built-in Switch

- 1: 1NC/1NO (snap-action)
- 2: 2NC (snap-action)
- A: 1NC/1NO (slow-action)
- B: 2NC (slow-action)
- C: 2NC/1NO (slow-action)
- D: 3NC (slow-action)
- E: 1NC/1NO (MBB contact) (slow-action)
- F: 2NC/1NO (MBB contact) (slow-action)

3. Head and Actuator

- 20: Roller lever (resin lever, resin roller)
- 22: Roller lever (metal lever, resin roller)
- 25: Roller lever (metal lever, metal roller)
- 26: Roller lever (metal lever, bearing roller)
- 2G: Adjustable roller lever, form lock (metal lever, resin roller)
- 2H: Adjustable roller lever, form lock (metal lever, rubber roller)
- 31: Plunger
- 32: Roller Plunger
- 62: One-way roller arm lever (horizontal)
- 72: One-way roller arm lever (vertical)

Ordering Information

List of Models

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

Switches with Two Contacts (with Direct Opening Mechanism)

Actuator	Conduit size		Built-in switch mechanism							
			1NC/1NO (Snap-action)		2NC (Snap-action)		1NC/1NO (Slow-action)		2NC (Slow-action)	
			Model	Direct opening	Model	Direct opening	Model	Direct opening	Model	Direct opening
Roller lever (resin lever, resin roller) 	1-conduit	Pg13.5	D4N-1120		D4N-1220		D4N-1A20		D4N-1B20	
		G1/2	D4N-2120		D4N-2220		D4N-2A20		D4N-2B20	
		M20	D4N-4120		D4N-4220		D4N-4A20		D4N-4B20	
		M12 connector	D4N-9120		D4N-9220		D4N-9A20		D4N-9B20	
	2-conduit	G1/2	D4N-6120		D4N-6220		D4N-6A20		D4N-6B20	
		M20	D4N-8120		D4N-8220		D4N-8A20		D4N-8B20	
Roller lever (metal lever, resin roller) 	1-conduit	Pg13.5	D4N-1122		D4N-1222		D4N-1A22		D4N-1B22	
		G1/2	D4N-2122		D4N-2222		D4N-2A22		D4N-2B22	
		M20	D4N-4122		D4N-4222		D4N-4A22		D4N-4B22	
		M12 connector	D4N-9122		D4N-9222		D4N-9A22		D4N-9B22	
	2-conduit	G1/2	D4N-6122		D4N-6222		D4N-6A22		D4N-6B22	
		M20	D4N-8122		D4N-8222		D4N-8A22		D4N-8B22	
Roller lever (metal lever, metal roller) 	1-conduit	Pg13.5	D4N-1125		D4N-1225		D4N-1A25		D4N-1B25	
		G1/2	D4N-2125		D4N-2225		D4N-2A25		D4N-2B25	
		M20	D4N-4125		D4N-4225		D4N-4A25		D4N-4B25	
		M12 connector	D4N-9125		D4N-9225		D4N-9A25		D4N-9B25	
Roller lever (metal lever, bearing roller) 	1-conduit	Pg13.5	D4N-1126		D4N-1226		D4N-1A26		---	
		G1/2	D4N-2126		D4N-2226		D4N-2A26		D4N-2B26	
		M20	D4N-4126		D4N-4226		D4N-4A26		D4N-4B26	
		M12 connector	D4N-9126		D4N-9226		D4N-9A26		---	
Adjustable roller lever, form lock (metal lever, resin roller) 	1-conduit	Pg13.5	D4N-112G		D4N-122G		D4N-1A2G		D4N-1B2G	
		G1/2	D4N-212G		D4N-222G		D4N-2A2G		D4N-2B2G	
		M20	D4N-412G		D4N-422G		D4N-4A2G		D4N-4B2G	
		M12 connector	D4N-912G		D4N-922G		D4N-9A2G		D4N-9B2G	
	2-conduit	G1/2	D4N-612G		D4N-622G		D4N-6A2G		D4N-6B2G	
		M20	D4N-812G		D4N-822G		D4N-8A2G		D4N-8B2G	
Adjustable roller lever, form lock (metal lever, rubber roller) 	1-conduit	Pg13.5	D4N-112H		D4N-122H		D4N-1A2H		D4N-1B2H	
		G1/2	D4N-212H		D4N-222H		D4N-2A2H		D4N-2B2H	
		M20	D4N-412H		D4N-422H		D4N-4A2H		D4N-4B2H	
		M12 connector	D4N-912H		D4N-922H		D4N-9A2H		D4N-9B2H	
	2-conduit	G1/2	D4N-612H		D4N-622H		D4N-6A2H		D4N-6B2H	
		M20	D4N-812H		D4N-822H		D4N-8A2H		D4N-8B2H	
Plunger 	1-conduit	Pg13.5	D4N-1131		D4N-1231		D4N-1A31		D4N-1B31	
		G1/2	D4N-2131		D4N-2231		D4N-2A31		D4N-2B31	
		M20	D4N-4131		D4N-4231		D4N-4A31		D4N-4B31	
		M12 connector	D4N-9131		D4N-9231		D4N-9A31		D4N-9B31	
	2-conduit	G1/2	D4N-6131		D4N-6231		D4N-6A31		D4N-6B31	
		M20	D4N-8131		D4N-8231		D4N-8A31		D4N-8B31	
Roller plunger 	1-conduit	Pg13.5	D4N-1132		D4N-1232		D4N-1A32		D4N-1B32	
		G1/2	D4N-2132		D4N-2232		D4N-2A32		D4N-2B32	
		M20	D4N-4132		D4N-4232		D4N-4A32		D4N-4B32	
		M12 connector	D4N-9132		D4N-9232		D4N-9A32		D4N-9B32	
	2-conduit	G1/2	D4N-6132		D4N-6232		D4N-6A32		D4N-6B32	
		M20	D4N-8132		D4N-8232		D4N-8A32		D4N-8B32	
One-way roller arm lever (horizontal) 	1-conduit	Pg13.5	D4N-1162		D4N-1262		D4N-1A62		D4N-1B62	
		G1/2	D4N-2162		D4N-2262		D4N-2A62		D4N-2B62	
		M20	D4N-4162		D4N-4262		D4N-4A62		D4N-4B62	
		M12 connector	D4N-9162		D4N-9262		D4N-9A62		D4N-9B62	
	2-conduit	G1/2	D4N-6162		D4N-6262		D4N-6A62		D4N-6B62	
		M20	D4N-8162		D4N-8262		D4N-8A62		D4N-8B62	
One-way roller arm lever (vertical) 	1-conduit	Pg13.5	D4N-1172		D4N-1272		D4N-1A72		D4N-1B72	
		G1/2	D4N-2172		D4N-2272		D4N-2A72		D4N-2B72	
		M20	D4N-4172		D4N-4272		D4N-4A72		D4N-4B72	
		M12 connector	D4N-9172		D4N-9272		D4N-9A72		D4N-9B72	
	2-conduit	G1/2	D4N-6172		D4N-6272		D4N-6A72		D4N-6B72	
		M20	D4N-8172		D4N-8272		D4N-8A72		D4N-8B72	

Switches with Three Contacts and MBB Contacts (with Direct Opening Mechanism)

Actuator	Conduit size		Built-in switch mechanism								
			2NC/1NO (Slow-action)		3NC (Slow-action)		1NC/1NO MBB (Slow-action)		2NC/1NO MBB (Slow-action)		
			Model	Direct opening	Model	Direct opening	Model	Direct opening	Model	Direct opening	
Roller lever (resin lever, resin roller) 	1-conduit	Pg13.5	D4N-1C20		D4N-1D20		---		D4N-1F20		
		G1/2	D4N-2C20		D4N-2D20		D4N-2E20		D4N-2F20		
		M20	D4N-4C20		D4N-4D20		D4N-4E20		D4N-4F20		
	2-conduit	G1/2	D4N-6C20		D4N-6D20		---		D4N-6F20		
M20	D4N-8C20	D4N-8D20	---								
Roller lever (metal lever, resin roller) 	1-conduit	Pg13.5	D4N-1C22		D4N-1D22		D4N-1E22		D4N-1F22		
		G1/2	D4N-2C22		D4N-2D22		---		D4N-2F22		
		M20	D4N-4C22		D4N-4D22		D4N-4E22		D4N-4F22		
	2-conduit	G1/2	D4N-6C22		D4N-6D22		---		---		
		M20	D4N-8C22		D4N-8D22		---		D4N-8F22		
	Roller lever (metal lever, metal roller) 	1-conduit	Pg13.5	D4N-1C25		D4N-1D25		---		---	
G1/2			D4N-2C25	D4N-2D25				D4N-2E25		D4N-2F25	
M20			D4N-4C25	D4N-4D25				---		D4N-4F25	
Roller lever (metal lever, bearing roller) 	1-conduit	Pg13.5	D4N-1C26		D4N-1D26		---		D4N-1F26		
		G1/2	D4N-2C26		D4N-2D26		---		D4N-2F26		
		M20	D4N-4C26		D4N-4D26		---		D4N-4F26		
Adjustable roller lever, form lock (metal lever, resin roller) 	1-conduit	Pg13.5	D4N-1C2G		D4N-1D2G		---		---		
		G1/2	D4N-2C2G		D4N-2D2G			D4N-2E2G		D4N-2F2G	
		M20	D4N-4C2G		D4N-4D2G			D4N-4E2G		D4N-4F2G	
	2-conduit	G1/2	D4N-6C2G		D4N-6D2G		---		---		
		M20	D4N-8C2G		D4N-8D2G		---				
Adjustable roller lever, form lock (metal lever, rubber roller) 	1-conduit	Pg13.5	D4N-1C2H		D4N-1D2H		---		---		
		G1/2	D4N-2C2H		D4N-2D2H			D4N-2E2H		---	
		M20	D4N-4C2H		D4N-4D2H			---		D4N-4F2H	
	2-conduit	G1/2	D4N-6C2H		D4N-6D2H		---		---		
		M20	D4N-8C2H		D4N-8D2H		D4N-8E2H		---		
Plunger 	1-conduit	Pg13.5	D4N-1C31		D4N-1D31		---		D4N-1F31		
		G1/2	D4N-2C31		D4N-2D31			D4N-2E31			D4N-2F31
		M20	D4N-4C31		D4N-4D31			D4N-4E31			D4N-4F31
	2-conduit	G1/2	D4N-6C31		D4N-6D31		D4N-6E31		D4N-6F31		
		M20	D4N-8C31		D4N-8D31		---		D4N-8F31		
Roller plunger 	1-conduit	Pg13.5	D4N-1C32		D4N-1D32		D4N-1E32		D4N-1F32		
		G1/2	D4N-2C32		D4N-2D32		D4N-2E32		D4N-2F32		
		M20	D4N-4C32		D4N-4D32		D4N-4E32		D4N-4F32		
	2-conduit	G1/2	D4N-6C32		D4N-6D32		D4N-6E32		---		
		M20	D4N-8C32		D4N-8D32		---		D4N-8F32		
One-way roller arm lever (horizontal) 	1-conduit	Pg13.5	D4N-1C62		D4N-1D62		D4N-1E62		---		
		G1/2	D4N-2C62		D4N-2D62		---		D4N-2F62		
		M20	D4N-4C62		D4N-4D62		D4N-4E62		D4N-4F62		
	2-conduit	G1/2	D4N-6C62		D4N-6D62		---		D4N-6F62		
		M20	D4N-8C62		D4N-8D62		D4N-8E62		---		
One-way roller arm lever (vertical) 	1-conduit	Pg13.5	D4N-1C72		D4N-1D72		D4N-1E72			---	
		G1/2	D4N-2C72		D4N-2D72		---			D4N-2F72	
		M20	D4N-4C72		D4N-4D72		---			D4N-4F72	
	2-conduit	G1/2	D4N-6C72		D4N-6D72		D4N-6E72		---		
		M20	D4N-8C72		D4N-8D72		---		D4N-8F72		

General-purpose Switches with Two Contacts

Actuator	Conduit size		Built-in switch mechanism							
			1NC/1NO (Snap-action)		2NC (Snap-action)		1NC/1NO (Slow-action)		2NC (Slow-action)	
			Model	Direct opening	Model	Direct opening	Model	Direct opening	Model	Direct opening
Fork lever lock (right operation) 	1-conduit	G1/2	---	---	---	---	D4N-2ARE	---	D4N-2BRE	---
		M20					D4N-4ARE		D4N-4BRE	
Fork lever lock (left operation) 		G1/2					D4N-2ALE		D4N-2BLE	
		M20					D4N-4ALE		D4N-4BLE	
Cat whisker 		G1/2	D4N-2180	---	D4N-2280	---	---	---	D4N-2B80	
		M20	D4N-4180		D4N-4280				D4N-4B80	
Plastic rod 		G1/2	D4N-2187		D4N-2287				D4N-2B87	
		M20	D4N-4187		D4N-4287				D4N-4B87	

Note: Mechanically speaking, these models are general-purpose switches with no direct opening mechanism.

General-purpose Switches with Three Contacts and MBB Contacts

Actuator	Conduit size		Built-in switch mechanism							
			2NC/1NO (Slow-action)		3NC (Slow-action)		1NC/1NO MBB (Slow-action)		2NC/1NO MBB (Slow-action)	
			Model	Direct opening	Model	Direct opening	Model	Direct opening	Model	Direct opening
Fork lever lock (right operation)	1-conduit	G1/2	D4N-2CRE	---	D4N-2DRE	---	D4N-2ERE	---	D4N-2FRE	---
		M20	D4N-4CRE		D4N-4DRE		D4N-4ERE		D4N-4FRE	
Fork lever lock (left operation)		G1/2	D4N-2CLE		D4N-2DLE		---		D4N-2FLE	
		M20	D4N-4CLE		D4N-4DLE		D4N-4ELE		---	
Cat whisker		G1/2	---	D4N-2D80	---	---	---	---		
		M20		D4N-4D80						
Plastic rod		G1/2		D4N-2D87						
		M20		D4N-4D87						

Note: Mechanically speaking, these models are general-purpose switches with no direct opening mechanism.