



MZ2Q-C

Cylinder sensors with two individually adjustable switching points for C-slot

SENSORS FOR C-SLOT CYLINDERS

SICK
Sensor Intelligence.



Technical data overview

Output function	NO
IO-Link	- / ✓ (depending on type)
Teach-in	Yes
Special features	Special hysteresis Software V303 Housing black Special software setting (depending on type)
Cylinder types with adapter	SMC rail ECDQ2 SMC rail CDQ2
Housing length	19.5 mm
Supply voltage	12 V DC ... 30 V DC

Product description

On pneumatic cylinders, grippers, or carriages, the MZ2Q-C cylinder sensors from SICK are able to detect two end positions or intermediate positions with just one sensor. This is achieved by using two individually adjustable switching points in one sensor housing. This is much easier, quicker, and more cost-effective than conventional solutions, since only one slot is used. As a result, mounting and cabling overheads are halved and applications can be solved efficiently.

At a glance

- Can be used in all standard cylinders, linear slides, and grippers using the C-slot and – with the help of adapters – in round rod, tie-rod, and profile cylinders
- Drop-in mounting from above simplifies handling and assembly
- Easy adjustment of two switching points via teach-in pushbutton
- LEDs for indicating the two switching points
- Detection range up to 50 mm stroke

Your benefits

- One sensor, two switching points: Reduces commissioning time and costs
- Maximum flexibility thanks to a detection zone up to 50 mm
- Suitable for precise pneumatic applications due to intuitive and precise definition of two switching points
- Quick and easy installation and sensor replacement thanks to drop-in sensor mounting
- Flexible sensor settings, monitoring, advanced diagnostics and visualization through IO-Link (depending on type)

Fields of application

- End position detection in pneumatic miniature cylinders
- Position detection (open/close) in pneumatic grippers

Ordering information

Other models and accessories → www.sick.com/MZ2Q-C

- **Preferred manufacturer slot:** SMC, Bimba, Schunk
- **Output function:** NO
- **Electrical wiring:** DC 4-wire

Connection type	Switching output	Smart Sensor	Communication interface	Type	Part no.
Cable with M8 male connector, 4-pin, 0.3 m	2 x PNP	-	-	MZ2Q-CSSPSKP0	1042238
				MZ2Q-CSSPSKPOS10	1061383
Cable with connector M12, 4-pin, with knurled nuts, 0.3 m	2 x PNP	-	-	MZ2Q-CSSPSKQ0	1042240
		Enhanced Sensing, efficient communication	IO-Link	MZ2Q-CSLPSKQ0	1043696
Cable with connector M8, 4-pin, with knurled nuts, 0.5 m	2 x NPN	-	-	MZ2Q-CSSNSKR0S21	1096578
	2 x PNP	-	-	MZ2Q-CSSPSKR0	1042239
				MZ2Q-CSSPSKR0S01	1044557
				MZ2Q-CSSPSKR0S20	1095814
				MZ2Q-CSSPSKR0S22	1118101
Cable, 4-wire, 2 m	2 x PNP	-	-	MZ2Q-CSSPSKU0	1042237
Cable, 4-wire, 3 m	2 x NPN	-	-	MZ2Q-CSSNSKUA	1046234
	2 x PNP	-	-	MZ2Q-CSSPSKUAS05	1051588

- **Preferred manufacturer slot:** Festo
- **Switching output:** 2 x PNP
- **Output function:** NO
- **Electrical wiring:** DC 4-wire

Connection type	Smart Sensor	Communication interface	Type	Part no.
Cable with M8 male connector, 4-pin, 0.3 m	-	-	MZ2Q-CFSPSKP0	1042242
			MZ2Q-CFSPSKPOS04	1051025
Cable with connector M12, 4-pin, with knurled nuts, 0.3 m	-	-	MZ2Q-CFSPSKQ0	1042244
	Enhanced Sensing, efficient communication	IO-Link	MZ2Q-CFLPSKQ0	1043697
Cable with connector M8, 4-pin, with knurled nuts, 0.5 m	-	-	MZ2Q-CFSPSKR0	1042243
Cable, 4-wire, 2 m	-	-	MZ2Q-CFSPSKU0	1042241
	Enhanced Sensing, efficient communication	IO-Link	MZ2Q-CFLPSKU0	1115196

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com