MZU2-03VPS-DCM

MZU2

WELD IMMUNE

SICK
Sensor Intelligence.

MZU2-03VPS-DCM | MZU2

WELD IMMUNE

Ordering information

Type	Part no.
MZU2-03VPS-DCM	1017450

Other models and accessories ➜ www.sick.com/MZU2

Detailed technical data

Features

Cylinder types with adapter	T-slot Tie rod cylinder Profile cylinder
Housing length	48 mm
Switching output	PNP
Switching frequency	40 Hz
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 [1]
Special features	Very high magnet field and welding field strength

[1] According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Power consumption	18 mA [1]
Voltage drop	≤ 2 V
Continuous current I_a	≤ 300 mA
Protection class	III
Time delay before availability	≤ 20 ms
Dimensions (W x H x D)	18 mm x 48 mm x 28 mm
Response sensitivity, typ.	3 mT
Reproducibility	≤ 0.1 mm [2]
Reverse polarity protection	✓
Short-circuit protection	✓
Power-up pulse protection	✓

[1] Without load.
[2] Ub and Ta constant.

Ambient operating temperature	–25 °C … +75 °C
Shock and vibration resistance	30 g, 11 ms / 10 … 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Housing material	Metal, Zinc diecast
Sensing face material	Metal, metal
Connection type	Male connector M12, 4-pin

[1] Without load.

[2] Ub and Ta constant.

Classifications

ECl@ss 5.0	27270104
ECl@ss 5.1.4	27270104
ECl@ss 6.0	27270104
ECl@ss 6.2	27270104
ECl@ss 7.0	27270104
ECl@ss 8.0	27270104
ECl@ss 8.1	27270104
ECl@ss 9.0	27270104
ETIM 5.0	EC002544
ETIM 6.0	EC002544
UNSPSC 16.0901	39122230

Connection diagram

Cd-007

Pin	Wire	Signal
1	BN	+ (L+)
4	BK	NO
2		not connected
3	BU	- (M)

1

2   4

3

Functional principle

Dimensional drawing (Dimensions in mm (inch))

M4

5.5 (0.22)   48 (1.89)   9 (0.35)

28 (1.10)
23 (0.91)

① M12 x 1

11 (0.43)

30.5 (1.20)   7.5 (0.30)

18 (0.71)   ②

① Connection
② Indication LED
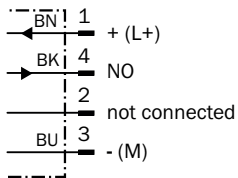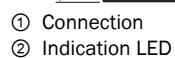
Recommended accessories

Other models and accessories ➜ www.sick.com/MZU2

	Brief description	Type	Part no.
Brackets for cylinder sensors			
	Clamp piece for integrated profile cylinder up to 13 mm wide, Aluminum, mounting hardware included	BEF-KS-U2-P1	2019824
	Clamp piece for integrated profile cylinder up to 18 mm wide, Aluminum, mounting hardware included	BEF-KS-U2-P2	2019823
	Clamp piece for tie-rod cylinder, Zinc diecast, mounting hardware included	BEF-KS-U2-S1	4030922
	Clamp piece for tie-rod cylinder, Zinc die cast with Teflon coating, mounting hardware included	BEF-KS-U2-S1T	4031632
	Clamp piece for cylinder with T-slot or dovetail slot, Aluminum, mounting hardware included	BEF-KS-U2-T1	2019822
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14-020VB3XLEAX	2096234
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14-050VB3XLEAX	2096235
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14-020VB3XLEAX	2095895
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A14-050VB3XLEAX	2095897
	Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302
	Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-W	6007303
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932
	Head A: male connector, M12, 4-pin, angled Head B: - Cable: unshielded	STE-1204-W	6022084

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:

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