



MZT8-28VPS-KUB

MZT8

CYLINDER SENSORS

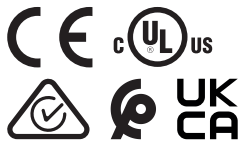
SICK
Sensor Intelligence.



Ordering information

Type	part no.
MZT8-28VPS-KUB	1075262

Other models and accessories → www.sick.com/MZT8



Detailed technical data

Features

Cylinder type	T-slot
Cylinder types with adapter	Profile cylinder Tie rod cylinder Round body cylinder Dovetail groove cylinder SMC rail CDQ2 SMC rail ECDQ2
Housing length	24 mm
Switching output	PNP
Switching frequency	1,000 Hz
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68 ¹⁾ IP69K ²⁾

¹⁾ According to EN 60529 (IP 67 / IP 68).

²⁾ According to DIN 40050 (IP 69K).

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Power consumption	10 mA, without load
Voltage drop	≤ 2.2 V
Continuous current I_a	≤ 200 mA
Protection class	III
Time delay before availability	25 ms
Response sensitivity, typ.	2.8 mT

¹⁾ Distance the actuator magnet travels while the sensor provides a switching signal.

²⁾ Supply voltage U_B and constant ambient temperature T_a.

Overrun distance, typ.	9 mm ¹⁾
Hysteresis, typ.	0.7 mT
Reproducibility	≤ 0.1 mT ²⁾
Reverse polarity protection	Yes
Short-circuit protection	Yes
Status indicator LED	Yes
Teach-in	No
Power-up pulse protection	Yes
Ambient operating temperature	-30 °C ... +80 °C
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Connection type	Cable, 3-wire, ferrules, drag chain use, 5 m
Connection type Detail	
Conductor cross section	0.14 mm ²
Cable diameter	Ø 2.9 mm
Bending radius	With fixed installation > 3 x cable diameter For flexible use > 5 x cable diameter
Cable outlet	Axial
Material	
Housing	Plastic, PA12
Cable	PUR
UL File No.	NRKH.E181493 & NRKH7.E181493

¹⁾ Distance the actuator magnet travels while the sensor provides a switching signal.

²⁾ Supply voltage U_B and constant ambient temperature T_a .

Safety-related parameters

MTTF_D	2,289 years
DC_{avg}	0 %
T_M (mission time)	20 years

Certificates

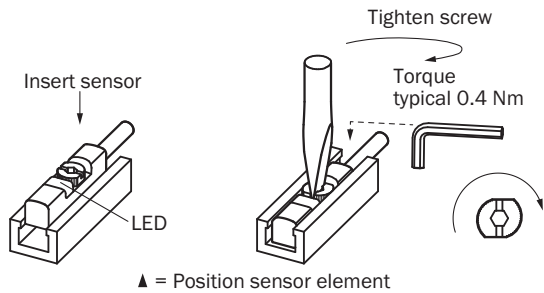
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

Classifications

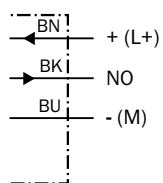
ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104

ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104
ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

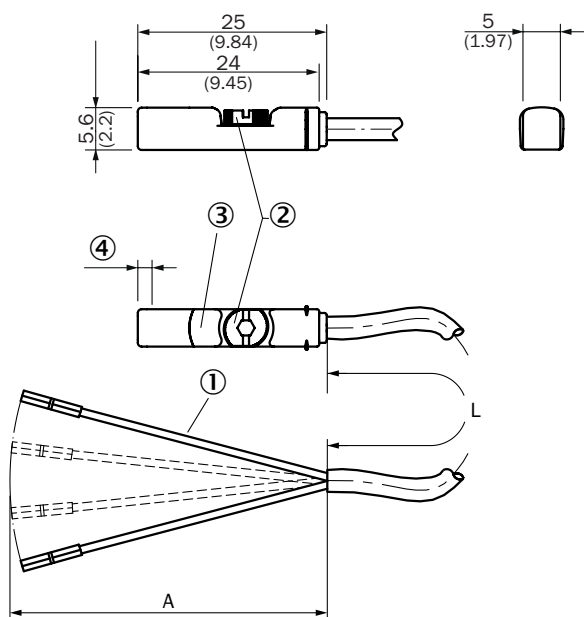
Installation note



Connection diagram Cd-001



Dimensional drawing Cable



Dimensions in mm (inch)

① Connection

② Fixing screw SW 2.0

③ Display LED

④ Sensor element position; short overrun distance (3 mm): 2.25 mm, long overrun distance (9 mm): 1.5 mm

Part no.	Type	L	A	Number of cores
1044349	MZT8-03VPS-KW0	2 m	42 mm	3
1044468	MZT8-03VNS-KW0	2 m	42 mm	3
1044469	MZT8-03VPS-KU0	2 m	42 mm	3
1044931	MZT8-03VPO-KU0	2 m	42 mm	3
1044934	MZT8-03VNS-KU0	2 m	42 mm	3
1048049	MZT8-28VPS-KU0	2 m	42 mm	3
1073269	MZT8-2V6PSTKW0	2 m	42 mm	3
1088313	MZT8-2V6NSTKW0	2 m	42 mm	3
1054237	MZT8-03VPS-KUDS08	2.5 m	42 mm	3
1044466	MZT8-03VPS-KUA	3 m	42 mm	3
1068535	MZT8-28VNS-KUA	3 m	42 mm	3
1068912	MZT8-03VNS-KUA	3 m	42 mm	3
1092766	MZT8-2V8NS-KUAS31	3 m	42 mm	3
1093836	MZT8-1V9NS-KUA	3 m	42 mm	3
1094836	MZT8-1V9NO-KUA	3 m	42 mm	3
1054238	MZT8-03VPS-KUDS09	3.6 m	42 mm	3
1044470	MZT8-03VPS-KUB	5 m	42 mm	3
1048314	MZT8-03VPS-KWB	5 m	42 mm	3
1057030	MZT8-28VPS-KWB	5 m	42 mm	3
1071438	MZT8-1V9PS-KUB	5 m	42 mm	3
1075262	MZT8-28VPS-KUB	5 m	42 mm	3
1073270	MZT8-2V6PSTKWB	5 m	42 mm	3

Part no.	Type	L	A	Number of cores
1091033	MZT8-03VNS-KUDS28	9 m	42 mm	3
1054051	MZT8-03VPS-KUD	10 m	42 mm	3
1060429	MZT8-03VPO-KUD	10 m	42 mm	3
1073271	MZT8-2V6PSTKWD	10 m	42 mm	3

Recommended accessories

Other models and accessories → www.sick.com/MZT8

	Brief description	Type	part no.
device protection and care			
	Description: Protective adapter Material: Zinc diecast Items supplied: Mounting hardware included Suitable for: MZT7, RZT7, MZT8	BEF-SG-MRZT	2077201

	Brief description	Type	part no.
Mounting systems			
	• Description: Mounting bracket for integrated profile cylinder/tie-rod cylinder • Material: Zinc diecast • Details: Zinc diecast • Items supplied: Mounting hardware included	BEF-KHZ-PT1	2022702
	• Description: Mounting bracket on round body cylinder with piston diameter of 8 mm ... 130 mm, ambient temperature min -30 °C max 80 °C • Material: Stainless steel, Zinc cast • Details: Stainless steel, Zinc cast • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT1-130	2077684
	• Description: Mounting bracket on round body cylinder with piston diameter of 12 mm, ambient temperature min 0 °C max 50 °C • Dimensions (W x H x L): 22.4 m • Material: Plastic, Aluminum • Details: Plastic, Aluminum • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT-12	2077681
	• Description: Mounting bracket on round body cylinder with piston diameter of 8 mm ... 25 mm, ambient temperature min -30 °C max 80 °C • Material: Stainless steel, Zinc cast • Details: Stainless steel, Zinc cast • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT1-25	2077682
	• Description: Mounting bracket on round body cylinder with piston diameter of 16 mm, ambient temperature min 0 °C max 50 °C • Dimensions (W x H x L): 26.6 m • Material: Plastic, Aluminum • Details: Plastic, Aluminum • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT-16	2077680
	• Description: Mounting bracket on round body cylinder with piston diameter of 8 mm ... 63 mm, ambient temperature min -30 °C max 80 °C • Material: Stainless steel, Zinc cast • Details: Stainless steel, Zinc cast • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT1-63	2077683
	• Description: Mounting bracket on round body cylinder with piston diameter of 20 mm, ambient temperature min 0 °C max 50 °C • Dimensions (W x H x L): 30.6 m • Material: Plastic, Aluminum • Details: Plastic, Aluminum • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT-20	2077679
	• Description: Mounting bracket on round body cylinder with piston diameter of 25 mm, ambient temperature min 0 °C max 50 °C • Dimensions (W x H x L): 35.7 m • Material: Plastic, Aluminum • Details: Plastic, Aluminum • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT-25	2077678
	• Description: Mounting bracket on round body cylinder with piston diameter of 32 mm, ambient temperature min 0 °C max 50 °C • Dimensions (W x H x L): 42.9 m • Material: Plastic, Aluminum • Details: Plastic, Aluminum • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT-32	2077677
	• Description: Mounting bracket on round body cylinder with piston diameter of 40 mm, ambient temperature min 0 °C max 50 °C • Dimensions (W x H x L): 50.9 m • Material: Plastic, Aluminum • Details: Plastic, Aluminum • Packing unit: 1 piece	BEF-KHZ-RT-40	2077676

	Brief description	Type	part no.
	• Suitable for: T-slot • Description: Mounting bracket on round body cylinder with piston diameter of 50 mm, ambient temperature min 0 °C max 50 °C • Dimensions (W x H x L): 61.8 mm • Material: Plastic, Aluminum • Details: Plastic, Aluminum • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT-50	2077675
	• Description: Mounting bracket on round body cylinder with piston diameter of 63 mm, ambient temperature min 0 °C max 50 °C • Dimensions (W x H x L): 73.9 mm • Material: Plastic, Aluminum • Details: Plastic, Aluminum • Packing unit: 1 piece • Suitable for: T-slot	BEF-KHZ-RT-63	2077674
	• Description: Mounting bracket for cylinder with dovetail slot • Material: Aluminum • Details: Aluminum • Items supplied: Without mounting hardware	BEF-KHZ-ST1	2022703
	• Description: Mounting bracket for mounting on SMC rails ECDQ2 (T-slot) • Material: Aluminum • Details: Aluminum • Items supplied: Without mounting hardware	BEF-KHZ-TT1	2046439
	• Description: Mounting bracket for mounting on SMC rails CDQ2 (T-slot) • Material: Aluminum • Details: Aluminum • Items supplied: Without mounting hardware	BEF-KHZ-TT2	2046440

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.

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