MZT8-03VPS-KQTS13

MZT8 Twin

SENSORS FOR T-SLOT CYLINDERS

SICK
Sensor Intelligence.

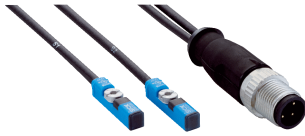# MZT8-03VPS-KQTS13 | MZT8 Twin
SENSORS FOR T-SLOT CYLINDERS

Ordering information

Type	Part no.
MZT8-03VPS-KQTS13	1087119

Other models and accessories ➜ www.sick.com/MZT8_Twin

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 4-wire
Enclosure rating	IP68 [1]
Special features	Two sensor heads on one plug

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

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.	2.6 mT
Overrun distance, typ.	3 mm
Hysteresis, typ.	≤ 0.5 mT
Reproducibility	≤ 0.1 mT [1]
Reverse polarity protection	Yes
Short-circuit protection	Yes

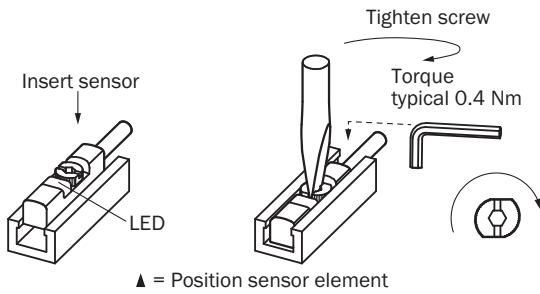[1] Supply voltage U_B and constant ambient temperature Ta.

Status indicator LED	Yes
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 with connector M12, 4-pin, with knurled nuts, drag chain use, 0.5 m
Connection type Detail	
Conductor cross section	0.14 mm²
Cable diameter	Ø 2.9 mm
Bending radius	With fixed installation > 3 x cable diameter For flexible use > 10 x cable diameter
Torsion force	± 270° / 10 cm
Torsion cycles	> 2,000,000
Drag chain cycles	> 2,000,000
Drag chain parameters	Traversing speed max. 3.3 m/s at 5 m horizontal traversing length Acceleration max. 5 m/s²
Cable outlet	Axial
Material	
Housing	Plastic, PA12
Cable	PUR
UL File No.	NRKH.E181493 & NRKH7.E181493

[1] Supply voltage U_B and constant ambient temperature Ta.
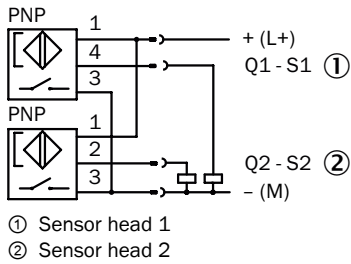
Classifications

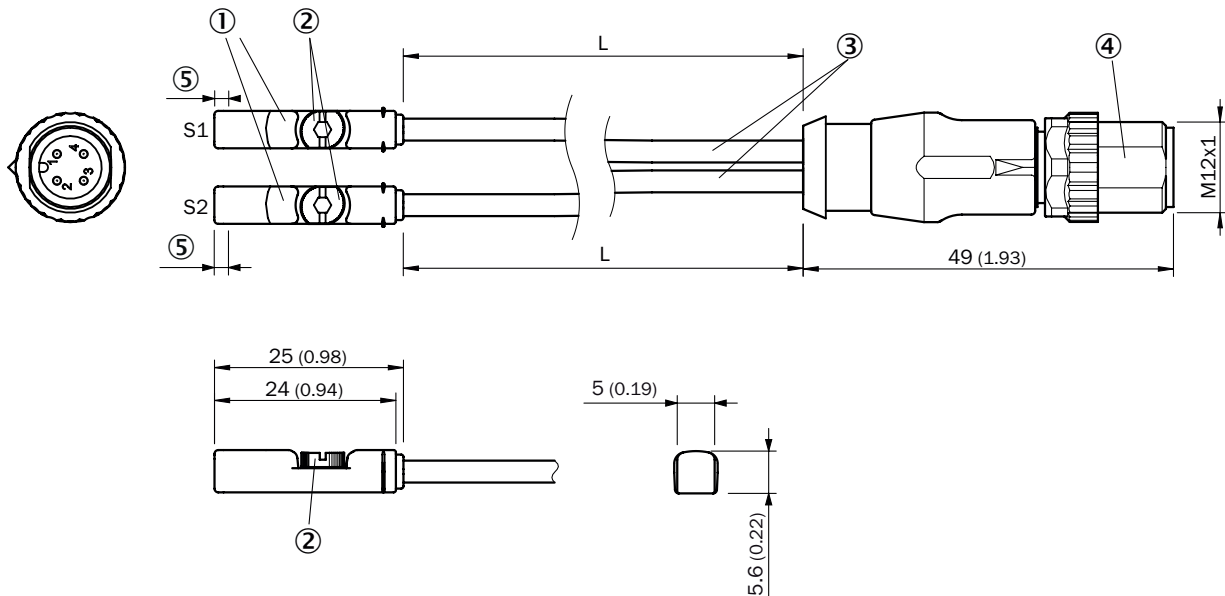| ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104
ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

Installation note

Insert sensor

LED

Tighten screw

Torque typical 0.4 Nm

▲ = Position sensor element

Connection diagram

Cd-398

PNP
1
4
3
+ (L+)
Q1 - S1 ①

PNP
1
2
3
Q2 - S2 ②
– (M)

① Sensor head 1
② Sensor head 2

Dimensional drawing (Dimensions in mm (inch))

⑤
S1
S2
⑤
①
②
L
③
④
M12x1
L
49 (1.93)

25 (0.98)
24 (0.94)
②

5 (0.19)
5.6 (0.22)

① Display LED
② Fixing screw SW 2.0
③ Cable
④ Connection
⑤ Sensor element position; short overrun distance (3 mm): 2.25 mm, long overrun distance (9 mm): 1.5 mm

Part no.	Type	L
1087119	MZT8-03VPS-KRT13	500 mm

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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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