Magnetic Cylinder Sensors Sensors for T-slot cylinders

MZT8-03VPS-KU0







Model Name > MZT8-03VPS-KU0 Part No. > 1044469

At a glance

- Fits into all commonly used cylinders, linear slides and grippers with T-slots and it can be also applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets
- · Complete range with PNP/ NPN, PUR and PVC cable , M8 and M12 connector
- · Combined Allen and flathead installation screw
- · Very short sensor housing to install on short stroke cylinders
- LED function indicator
- IP 67 / IP 68 / IP 69K enclosure rating (depending on type)

Your benefits

- · Best-in-class switching performance for precise piston position
- Reduced maintenance cost as the sensor keeps its position under shock and vibration and does not move out
- Increased machine throughput thanks to SICK's proprietary GMR technology (giant magneto resistive) as well as the SICK-ASIC (application specific integrated circuit) that ensure precise one-time switching while eliminating false signals
- · Flexible installation via Allen wrench or flathead screwdriver
- Time saving single-hand mounting with 1/4-turn installation.
- Convenient installation and sensor replacement due to drop-in installation installer does not need to disassemble the cylinder from the machine for sensor replacement.
- Extremely rugged housing rated for IP67 respectively IP 68 and IP 69K, enlarging sensor life time



Features

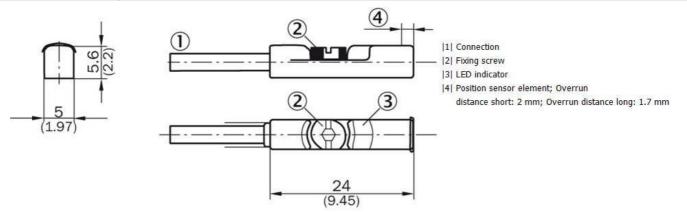
| Switching frequency typ.: | 1,000 Hz |
|---------------------------------------|--|
| Output type: | PNP |
| Output function: | NO |
| Electrical wiring: | DC 3-wire |
| Cylinder type: | T-slot |
| Cylinder types with adapter: | Profile cylinder Roundbody cylinder SMC rail cylinder CDQ2 SMC rail cylinder ECDQ2 Tie rod cylinder Cylinders with dovetail slots |
| Housing length: Enclosure rating:: | 24 mm IP 68, IP 69K ^{1) 2)} |



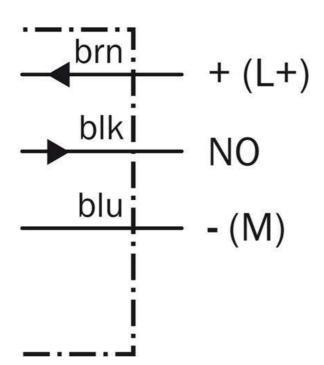
Mechanics/electronics

| Connection type: | Cable, 3-wire, 2 m |
|---|----------------------------|
| Supply voltage: | 10 V DC 30 V DC |
| Power consumption: | ≤ 10 mA ¹⁾ |
| Voltage drop: | ≤ 2.2 V |
| Output current la: | ≤ 200 mA |
| EMC: | According to EN 60947-5-2 |
| Cable material: | PUR |
| Conductor cross-section: | 14 mm² |
| Reverse polarity protection: | \checkmark |
| Short-circuit protection: | \checkmark |
| Housing material: | Plastic |
| Housing cap material: | PA12 |
| Power-up pulse protection: | ✓ 2) |
| Repeatability: | ≤ 0.1 mT ²⁾ |
| Overrun distance typ.: | 3 mm |
| Shock and vibration resistance: | 30 g, 11 ms∕10 55 Hz, 1 mm |
| Ambient operating temperature: | -30 °C +80 °C |
| Protection class: | 111 |
| Hysteresis typ.: | > 0.5 mT |
| Magnetic field sensitivity, typ.: | 2.6 mT |
| ¹⁾ Without load ²⁾ Ub and Ta constant | |

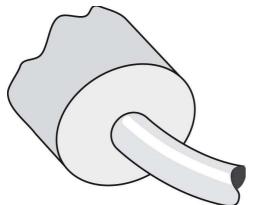
Dimensional drawing



Connection diagram



Connection type



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