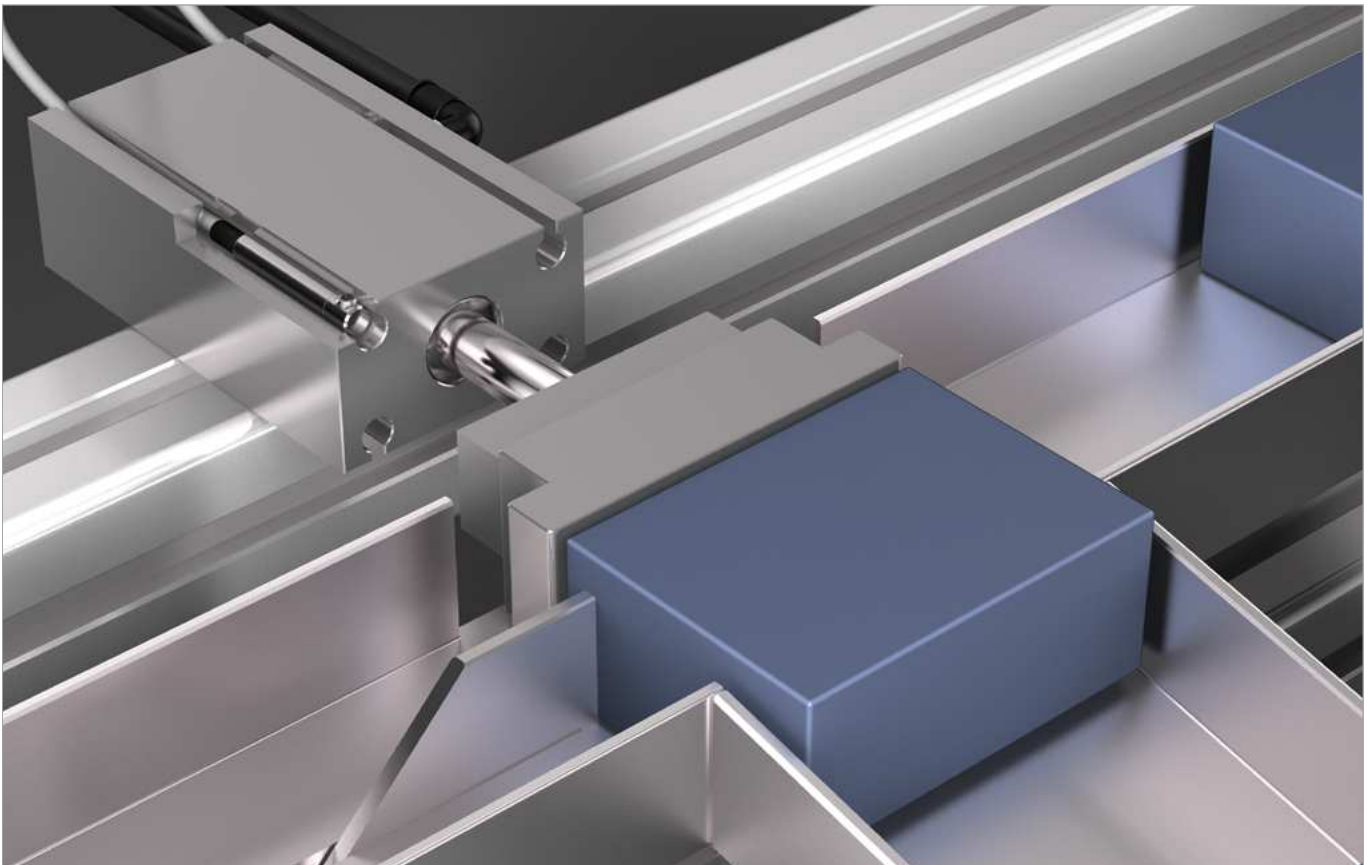


Magnetic field sensors



Magnetic field sensors are designed for pneumatic cylinders with integrated magnets. The piston position is detected through the cylinder wall.



 **di-soric**

MZEC Cylinder sensors C-groove 133

MZET Cylinder sensors T-groove 134

MZES Gripper sensors 135

MZEC CYLINDER SENSORS C-GROOVE







Our cylinder sensors for the C groove are designed for all common pneumatic cylinders with installed magnets.

Technical data (typ.)	+20 °C, 24 VDC
Service voltage	10 to 30 V DC
Switching output	Transistor pnp / NO
Voltage drop	2.0 V
	2.5 V (MZEx 9-xx ...)
Switching frequency	1,000 Hz
Ambient temperature	-25 to +70 °C
	-25 to +80 °C (MZEC 9-xx ...)
Insulation proof voltage	500 V
Polarity-safe	Yes
Protection class	IP 67



← Mounting lengthwise along the groove




↓ Can be inserted into the groove from above













Housing design Size (mm)	Installation method	Housing material	Switching output	Short-circuit-proof	Reproducibility (mm)	Cable length (m)	Plug connector	Connection cable (optionally available)	PUF connection cable, welding spark-resistant	Product description
	Ø 3.7x21	←	V2A (1.4301 / AISI 304) / plastic	Transistor pnp 100mA, NO		0.1	2.5	–	–	MZEC 3.7 PSL
							0.3	M8	TK ...	MZEC 3.7 PS-K-TSSL
							0.6	M8	TK ...	MZEC 3.7 PS-K0.6-TSSL
							0.3	M12	VK ...	MZEC 3.7 PS-K-IBS
	Ø 3.7x21	←	V2A (1.4301 / AISI 304) / plastic	Transistor pnp 100mA, NO		0.1	0.3	M8	TK ...	MZEC 3.7 VPS-K-T3
							0.6	M8	TK ...	MZEC 3.7 VPS-K0.6-T3
							0.3	M12	VK ...	MZEC 3.7 VPS-K-B3
	Ø 3.7x21	←	V2A (1.4301 / AISI 304) / plastic	Transistor pnp 100mA, NO		0.1	0.3	M8	TK ...	MZEC 3.7 VNS-K-T3
							0.6	M8	TK ...	MZEC 3.7 VNS-K0.6-T3
							0.3	M12	VK ...	MZEC 3.7 VNS-K-B3
	Ø 4.0x25	←	V2A (1.4301 / AISI 304) / plastic	Transistor pnp 100mA, NO		0.1	2.5	–	–	MZEC 4.0 PSL
							0.3	M8	TK ...	MZEC 4.0 PS-K-TSSL
							0.6	M8	TK ...	MZEC 4.0 PS-K0.6-TSSL
							0.3	M12	VK ...	MZEC 4.0 PS-K-IBS
	2.8 x 7.7 x 17.5	↓	Polyamide, mounting eccentric stainless steel	Transistor pnp 100mA, NO	■	0.2	2.0	–	–	MZEC 9-18 PSL
							0.3	M8	TK ...	MZEC 9-18 PSL-K-TSS
	2.8 x 5 x 25.8	↓	Polyamide, mounting eccentric stainless steel	Transistor pnp 100mA, NO	■	0.2	2.0	–	–	MZEC 9-26 PSL
							0.3	M8	TK ...	MZEC 9-26 PSL-K-TSS

MZET CYLINDER SENSORS T-GROOVE

Our cylinder sensors MZET for the T groove are designed for all common pneumatic cylinders with installed magnets.

Technical data (typ.)	+20 °C, 24 VDC
Service voltage	10 to 30 V DC
Switching output	Transistor pnp / NO
Voltage drop	2.0 V
Switching frequency	1,000 Hz
Ambient temperature	-25 to +70 °C
Insulation proof voltage	500 V
Polarity-safe	Yes
Protection class	IP 67


 Mounting lengthwise along the groove
 Can be inserted into the groove from above

	Housing design Size (mm)	Installation method	Housing material	Switching output	Short-circuit-proof	Reproducibility (mm)	Cable length (m)	Plug connector	Connection cable (optionally available)	Connection cable, PUR, welding-spark-resistant	Product description
	5 x 7 x 17		Die-cast zinc	Transistor pnp, 200 mA, NO	■	0.1	–	M8	TK ...		MZERT 17 PSK-TSSL
	5 x 7 x 20		Die-cast zinc	Transistor pnp, 200 mA, NO	■	0.1	–	M8	TK ...		MZERTI 20 PSK-TSSL ¹⁾ MZERTI 20 PSK-TSSL ¹⁾
	6.1 x 5 x 25		Die-cast zinc	Transistor pnp, 200 mA, NO	■	0.1	2.5 0.3 0.6 0.3	– M8 M8 M12	– TK ... TK ... VK ...	■	MZET 25 PSLK MZET 25 PSK-K-TSSL MZET 25 PSK-K0.6-TSSL MZET 25 PSK-K-IBS
	6.1 x 5 x 28		Die-cast zinc	Transistor pnp, 200 mA, NO	■	0.1	2.5 0.3 0.6 0.3	– M8 M8 M12	– TK ... TK ... VK ...	■	MZET 28 PSLK MZET 28 PSK-K-TSSL MZET 28 PSK-K0.6-TSSL MZET 28 PSK-K-IBS
	5 x 6.5 x 25		Polyamide, mounting eccentric stainless steel	Transistor pnp, 200 mA, NO	■	0.2	2.0 0.3 0.3	– M8 M12	– TK ... VK ...	■	MZET 9-25 PSL MZET 9-25 PSL-K-TSS MZET 9-25 PSL-K-IBS
	5.2 x 6.5 x 25		Die-cast zinc	Transistor pnp, 200 mA, NO	■	0.1	2.5 0.3 0.6 0.3	– M8 M8 M12	– TK ... TK ... VK ...	■	MZEK 25 PSLK ²⁾ MZEK 25 PSK-K-TSSL ²⁾ MZEK 25 PSK-K0.6-TSSL ²⁾ MZEK 25 PSK-K-IBS ²⁾

¹⁾ With an Allen screw

²⁾ Mounting with clamping wedge (internal hex SW 1.5 mm)

MZES GRIPPER SENSORS

Our gripper sensors are designed and developed for gripper systems that are used in automated processes as end-of-arm tooling on portals and robots. The gripper systems are designed individually for the respective application cases in the most varied industries.



Technical data (typ.)	+20 °C, 24 VDC
Service voltage	10 to 30 V DC
Switching output	Transistor pnp / NO
Voltage drop	2.0 V
Switching frequency	1,000 Hz
Ambient temperature	-25 to +70 °C
Insulation proof voltage	500 V
Polarity-safe	Yes
Protection class	IP 67

Mounting lengthwise along the groove
 Can be inserted into the groove from above

	Housing design Size (mm)	Installation method	Housing material	Switching output	Reproducibility (mm)	Cable length (m)	Plug connector	Connection cable (optionally available)	PUR connection cable, welding spark-resistant	Product description
MZES Gripper Sensors for the C-groove										
	Ø3.9x21		Stainless steel, plastic	Transistor pnp, 100 mA, NO	0.1	2.5 0.3 0.6	- M8 M8	- TK ... TK ...		MZES 3.9 PSL MZES 3.9 PS-K-TSSL MZES 3.9 PS-K0.6-TSSL
MZES Gripper Sensors for the T-groove										
	6.1 x 5 x 25	 	Die-cast zinc	Transistor pnp, 100 mA, NO	0.1	2.5 0.3 2.5 0.3	- M8 - M8	- TK ... - TK ...	■ ■	MZES 25 PSL MZES 25 PS-K-TSSL MZES 25 PSL * MZES 25 PSL *

* Mounting with clamping wedge