

MTV – Reading system with sine-wave output (1 Vpp)

- MTV magnetic sensor of small overall dimensions.
- Magnetic body sensor made of die-cast metallic material.
- Fixing of magnetic sensor by threaded holes M4 which can also be considered as through holes for M3 screws.
- Wide alignment tolerances.
- Protected against inversion of power supply polarity and short circuit on output ports.

MTV P

Pole pitch 1+1 mm

Pole pitch	1+1 mm
Resolution	up to 0.1 μm
Accuracy	$\pm 10 \mu\text{m}$
Sensor - magnetic band gap	0.1 \div 0.5 (with band MP100)
Reference signal	at constant pitch of 1 mm (C)
Repeatability	± 1 increment
Output	sine wave 1 Vpp
Power supply	5 \div 28 Vdc \pm 5%
Max. frequency	12 kHz
Max. speed	12 m/s
Protection class	IP 67
Electrical protections	inversion of polarity and short circuit

MTV M

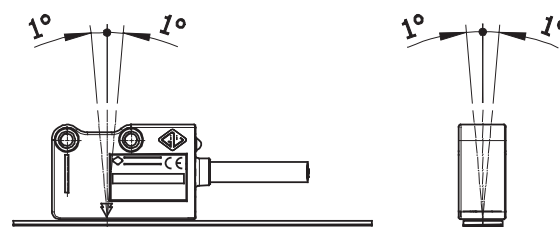
Pole pitch 2+2 mm

Pole pitch	2+2 mm
Resolution	up to 0.5 μm
Accuracy	$\pm 15 \mu\text{m}$
Sensor - magnetic band gap	0.3 \div 1.5 (with band MP200) 0.35 \div 0.9 (with band MP200Z)
Reference signal	at constant pitch of 2 mm (C) external (E)
Repeatability	± 1 increment
Output	sine wave 1 Vpp
Power supply	5 \div 28 Vdc \pm 5%
Max. frequency	6 kHz
Max. speed	12 m/s
Protection class	IP 67
Electrical protections	inversion of polarity and short circuit

MTV H

Pole pitch 5+5 mm

Pole pitch	5+5 mm
Resolution	up to 1 μm
Accuracy	$\pm 40 \mu\text{m}$
Sensor - magnetic band gap	0.3 \div 3.5 (with band MP500)
Reference signal	at constant pitch of 5 mm (C) external (E)
Repeatability	± 1 increment
Output	5 \div 28 Vdc \pm 5%
Power supply	sine wave 1 Vpp
Max. frequency	2.4 kHz
Max. speed	12 m/s
Protection class	IP 67
Electrical protections	inversion of polarity and short circuit



Sensor alignment tolerances.

