

TECHNICAL DATA

Electrical stroke	[mm]	50 to 600	650 to 900	950 to 1300	1400 to 1500
Sampling time	[ms]	1	01.05.16	2	3
Linearity		≤ ±0.04 % of full range (min. ±0.09 mm)			
Repeatability	[mm]	≤ 0.01 (typical)			
Overall dimension	[mm]	range + 154			
Hysteresis	[mm]	≤ 0.02 (typical)			

NOTES

The transducer must be installed away from sources of magnetic fields, both static and 50 Hz (electric motors, solenoids, etc.). The sensors must be powered with non-distributed networks and always at lengths of less than 30 mt.

The transducer connection cable must be wired separately from power cables and/or solenoid controls, drives, or remote switches. The line used for power supply must be dedicated to the transducers or must be drawn directly from the power terminals and as near as possible.

The transducer's cursor is a magnet. Therefore, if there are iron filings or small magnetic metal fragments in proximity of the transducer, avoid the use of sliding cursors, as there would be a risk of material accumulation on the cursor, creating problems for sliding. Use a floating cursor instead.

DECLARATION OF EC-CONFORMITY

WayCon Positionsmesstechnik GmbH
Mehlbeerenstrasse 4
82024 Taufkirchen / Germany

Classification
Series

This is to certify that the products
Magnetostrictive Sensors
MAP

fulfill the current request of the following EC-directives:
EMV-directive 2004/108/EU (until April 19th, 2016)
2014/30/EU (from April 20th, 2016)

applied harmonized standards:
EN 61000-6-2:2005, EN 61000-6-4:2007, EN 61326-1:2006

The declaration of conformity loses its validity if the product is misused or modified without proper authorisation.

Taufkirchen, 24.02.2016

Andreas Täger, CEO

INSTALLATION GUIDE

Magnetostrictive Sensor Series MAP

For more information please see the data sheet at www.waycon.biz/products/magnetostrictive-transducers/

FIRST STEPS

WayCon Positionsmesstechnik GmbH would like to thank you for the trust you have placed in us and our products. This manual will make you familiar with the installation and operation of our magnetostrictive sensors. Please read this manual carefully before initial operation!

Unpacking and checking:

Carefully lift the device out of the box by grabbing the housing. After unpacking the device, check it for any visible damage as a result of rough handling during the shipment. Check the delivery for completeness.

If necessary consult the transportation company, or contact WayCon directly for further assistance.

MOUNTING THE SENSOR

Brackets (please order separately)

1 set includes 2 brackets. We recommend to use 1 set for each 250 to 300 mm of the measurement range.



Type	PKIT590	PKIT591
Material	steel	steel
Distance of holes	42.5 mm	50 mm
Overall length	56 mm	63.5 mm
Mounting screws	M4	M5

MAGNETIC CURSOR

Magnetic Cursor (please order separately)

PCUR235: Standard version.

Guided sliding, axial joint, low

PCUR236: Guided sliding, axial joint, high

PCUR237: Guided sliding, angled joint

PCUR068: Unguided floating.

The adjustment has to be done 2...5 mm above the MAP-Profile.
Allowed lateral deviation ±2 mm.
Installation only on a support made of non-magnetic material.



WayCon

Positionsmesstechnik

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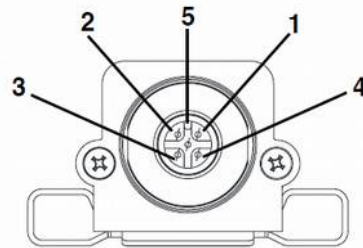
ELECTRICAL CONNECTION

The MAP magnetostrictive transducers provide a direct voltage or current analog output proportional to the magnetic cursor's position. Since the output is direct, no signal electronic processing is required if interfaced with controllers or measurement instruments.

Make the connection between power supply and transducer as short as possible.

MAP-A-A: 5 pole M12 connector output
Power supply 24 VDC, $\pm 20\%$

PIN	Function
1	output
2	GND output
3	n. c.
4	power supply -
5	power supply +



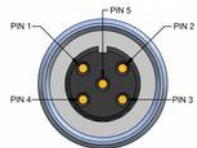
Available as accessory:

Cable with M12 connector, 5 pole, shielded, IP67

K5P2M-S-M12 2 m, M12 connector straight

K5P5M-S-M12 5 m, M12 connector straight

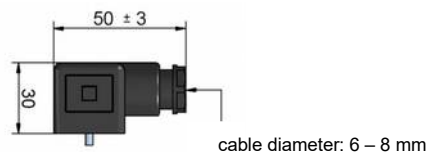
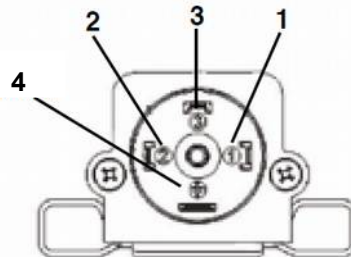
K5P10M-S-M12 10 m, M12 connector straight



PIN	Cable colour
1	brown
2	white
3	blue
4	black
5	grey

MAP-A-M: 4 pole connector EN175301-803 Form A
Power supply 24 VDC, $\pm 20\%$

PIN	Function
1	power supply +
2	output
3	power supply -
4	cable shield (must be connected to the panel side)



Available as accessory:

CON006: mating connector for self assembly,
IP40, 4 pole, PG9 cable gland

TECHNICAL DRAWING

