



aim arnold intelligente messsysteme



Displacement Sensor IMS-B

Displacement Sensor IMS-B		
Typ	Einheit	Wert
Power supply		
Supply voltage V_{cc}	V	10...18
Current consumption (at 10V)	mA	≤ 30
Output signal		
Signal range +	V	2,5...5...7,5
Signal range -	V	4...5...6
Output resistance	Ω	510
Resolution	mm	0,5
Operating conditions		
Maximum detection-speed	$\frac{m}{s}$	60
Measuring range	mm	± 1024
Maximum distance	mm	≈ 20
Housing and cables		
Overall dimensions	mm	82x64x21,5 (LxWxH)
Weight	g	178
IP Code	-	IP60
Cable length supply- and output-Voltage*	cm	500
* can be changed according to customer needs		

Displacement Sensor IMS-B

The optical displacement sensor IMS-B detects a line pattern and converts the counted value into an analogue voltage. Due to its small dimensions and its non-contact measuring technique, the sensor can be used for various applications.

- Non-contact measuring technique
- Compact design with integrated strap guide
- Adapted for high detection speed
- Ideally suited for crash-test applications
- Electronic ID by DS2401-Chip
- Analogue output signal
- LED function indicator
- Provides a shunt-test for calibration and functional test of the measuring system
- Minimized influence of ambient light by infrared-LEDs
- Robust, anodized aluminium housing
- Protected optical window
- Delivered with self-adhesive striped pattern label



This sensor works with invisible laser radiation of 850nm wavelength! Only operate the sensor with suitable protective equipment against the emerging laser radiation. Never look directly into the laser outlet opening, as long as the sensor is connected!

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