



aim arnold intelligente messsysteme



Displacement Sensor IMS

Displacement Sensor IMS		
Typ	Unit	Value
Power supply		
Supply voltage Vcc	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	39x33x20(LxWxH)
Weight	g	37
IP Code	-	IP60
Cable length*	cm	500
*can be changed according to customer needs		

Displacement Sensor IMS

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

- Non-contact measuring technique
- Extremely compact design
- 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 functional tests of the measuring system
- Minimized influence of ambient light by infrared-LEDs
- Robust, anodized aluminium housing
- Protected, recessed optical window
- Delivered with self-adhesive striped pattern label
- Two different mounting options available



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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