

INPROX Sensors



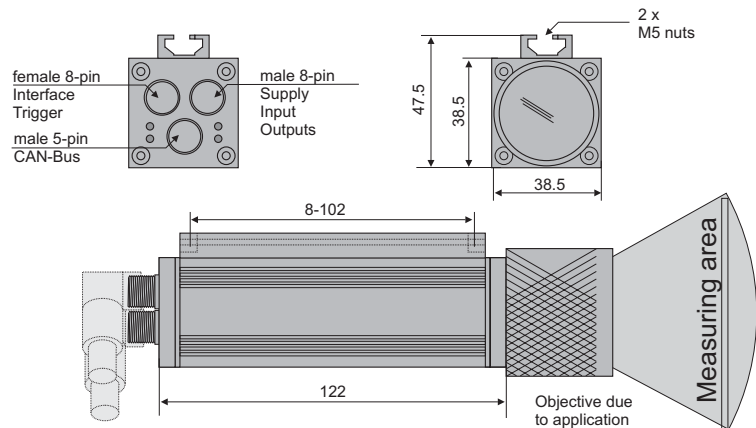
Intelligent CCD Line Sensor

MCD5

- 5 measurement programs
- Analog output 4-20 mA
- 3 digital switching outputs (to small, ok, to large)
- Serial Interface
- Configuration software with display of measuring results

Features:

- CCD Line Sensor **1024 pixel**
- Analog output **4-20 mA**
- Frequency range **≤ 2000 Hz**
- 3 SPS switching outputs
- 5 Measurement programs available
- RS232 interface
- External trigger input
- Protection class **IP 65**
- Handling via Windows configuration software included
- Back- and front light measurement
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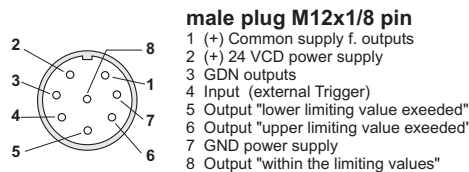
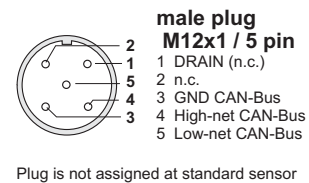
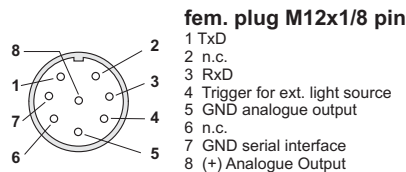


Applications:

- Control of completeness, position and geometry
- Sag control
- Position, edge and width control of moving parts
- Object counting
- Diameter control

Advantages:

- Very simple handling because of 5 available measurement programs
- C-Mount objective connection
- Serial interface for configuration of the measurement program, polling of measurement values and online parameterization
- Various objectives and illumination available on request



See also
User Manual MCD5

Specific data		MCD5	
	Sensor type	Line sensor with 1024 pixel (14 µm pixel width without pitch)	
	Measuring principle	Back- and frontlight measurement	
	Measuring range	Adjustable via objective* (accessories)	
	Measuring distance	Depends on objective*	
	Resolution	0.1 % of the measuring range	
	Uncertainty of measurement	± 0.5 % of the measuring range	
	Measuring rate	≤ 2000 Hz	
	Lighting time	500 µs up to 25 ms (adjustable)	
	Light source	External lightsource via trigger (see accessories)	
	Objective connection	C-Mount (M27 x 0.5)	
Electrical data	Supply voltage	24 VDC ± 30%	
	Power consumption	~ 4.8 W	
	Outputs	3 opto-decoupled switching outputs 24 VDC / 1.5 W (e.g.. "to small", "ok", "to big") 1 Trigger output for external illumination 24 VDC / 1.5 W, not opto-decoupled 1 Analogue output 4-20 mA (max. 500 Ohm, 10 bit)	
	Input	1 opto-decoupled input 24 VDC (trigger)	
	Display	4 LEDs (output status, configuration, Power ON)	
	Interface	RS232	
	Software	Suitable under Windows 98, NT4, 2000 and XP	
	Ambient conditions	Operating temperature	0 to + 50 °C
		Storage temperature	- 20 to +70 °C
Protection class		IP 65	
Mechanical data	Weight	~ 300 g (without objective)	
	Housing	Aluminum blue anodized, glass lens of protection tube	
	Connections	3 connectors M12x1 (2x8-pin, 1x5-pin)	

Line sensor *	Part No.
MCD5, 1024 pixel, 2000 Hz, RS232	MCD5E
Accessories	
Objective protection tube OST-38 X 67	call for part/info
Connecting cable -5m	
Cable with fem. plug 8-pin, M12 straight, 5m	IN12F85E
Connecting cable-5m	
Cable with male plug 8-pin, M12 straight, 5m	IN12M85E
Connecting cable 5m	
Cable with male plug 8-pin / Sub-D 9-pin, 5m	IN12M8S95E

* For external illumination, objectives and reflectors see separate datasheet MCD accessories

