

OGSA 030-K / OGSA 090-K Analog output 0...10V

Ultra linear characteristics with high 0.06 mm resolution

Enhanced web guiding performance thanks to accurate material edge mapping

Shielded optical components with integrated band pass filter

Immune to extraneous light

Sophisticated signal processing algorithm

Insensitive to planarity variations in the material

Instrumental positioning marks

Fast and precise alignment of material edge



Functional description

OGSA sensors are optical edge sensors for the detection of all opaque materials. They are used in web guiding applications where the material edge needs to be detected fast and where demanding accuracy is required. The used linear, high resolution material edge mapping system provides to OGSA clear advantages compared to ultrasonic sensors. Positioning marks provide a quick and precise alignment of the sensor to the reference line. They are factory set and don't need any calibration. Two standard sizes cover a large material bandwidth. The OGSA sensors work with a highly linear optical transceiver system of cutting edge technology. The integrated light sources emit UV-light. The CCD-array based receiver module detects and maps the material edge with high resolution. Signal processing is microcontroller based using advanced software algorithm. The short 2 ms cycle time allows to handle very fast material speeds. Power supply and analogue output comply with industry standards.

Technical data

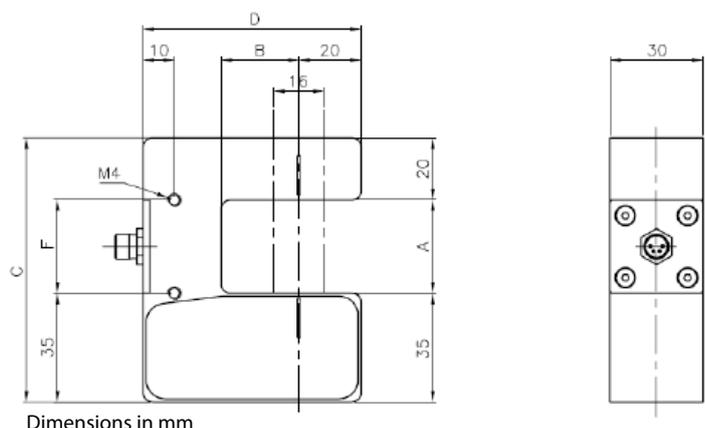
Sensing Width	16 mm [0.62"]
Resolution	0.06 mm [0.002"]
Measuring Rate	2 ms
Linearity	±0.05% @ -10...55 °C [14...131° F]
Output Signal	0...10 V
Power Supply	24 VDC (18...30 VDC) galvanic isolated
Temperature Range	-10...55 °C [14...131° F]
Protection Class	IP 60

Connection

Male-connector M8 4-wire

Dimensions

Sensor Type	A		B		C		D		F	
	mm	in	mm	in	mm	in	mm	in	mm	in
OGSA 030-K	30	1.18	25	0.98	85	3.35	70	2.76	30	1.18
OGSA 090-K	90	3.54	80	3.15	145	5.71	125	4.92	90	3.54



Dimensions in mm