Dietz Sensortechnik

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OGSA □□□ -K
Analog output 10...0V

Resolution 6 / 100 mm;
measuring width 16 mm
Large working width with high precision

Powersupply 24 V, output 0...10 V
Common industry standard

Galvanically isolated
Shielded from electrical noise

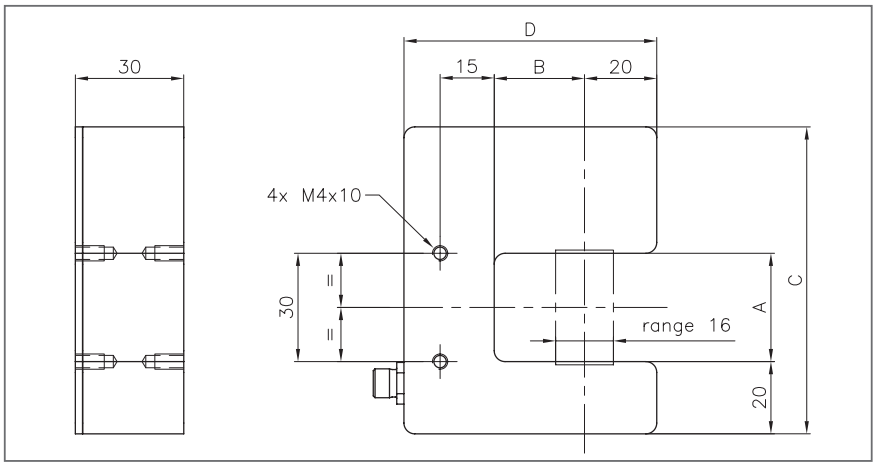
2 ms cycle time
Suitable for fast running applications

Detection unit with shielded light path and infrared filter
Insensitive against ambient light level

Functional description

The OGSA sensor is an optical edge sensor for the detection of all opaque materials. The integrated light source emits visible and infrared light.
The visible light helps the operator to position the sensor and is blocked with a filter before the detection unit.
The measurement is made with a infrared-CCD line sensor, that detects the transition from light to dark produced by the shadow of the material edge in the light beam.
The optical design with parallel light beam and the detection unit with shielded light path and integrated infrared filter makes the sensor insensitive against ambient light level, light level variation and dust.
The sensor electrical connections are of industry standard four integrated LED on the sensor housing give direct information on the position of the detected material edge.
Two standard sizes allow narrow or wide materials to be processed.

OGSA 030-K / OGSA 090-K Optical edge sensor - Dimensions in mm



OGSA 030-K / OGSA 090-K Optical edge sensor - Dimensions in mm

Sensor Type	Dimensions in mm A	B	C	D
OGSA 030-K	30	25	85	70
OGSA 090-K	90	80	145	125

OGSA 030-K / OGSA 090-K Optical edge sensor - Technical data

Measuring width	16 mm
Resolution	6 / 100 mm
Measuring rate	2 ms
Output signal 0...10V	0 V when the web fully covers the sensor
	10 V when the web doesn't cover the sensor
Power supply	24 VDC (18…36 VDC)
Connection	Plug M8, 4-pin
Temperature range	0…55 °C
Protection class	IP 50