

AZS 01B/AZS 04B BlueFlash Optical Edge Sensor

Ultra linear characteristics with high 0.06 mm resolution

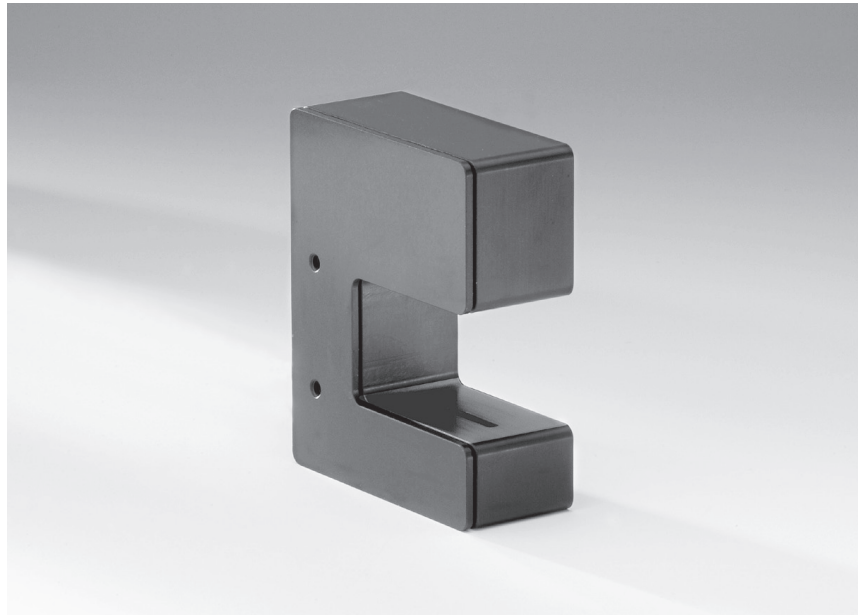
Enhanced web guiding performance thanks to accurate material edge mapping

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



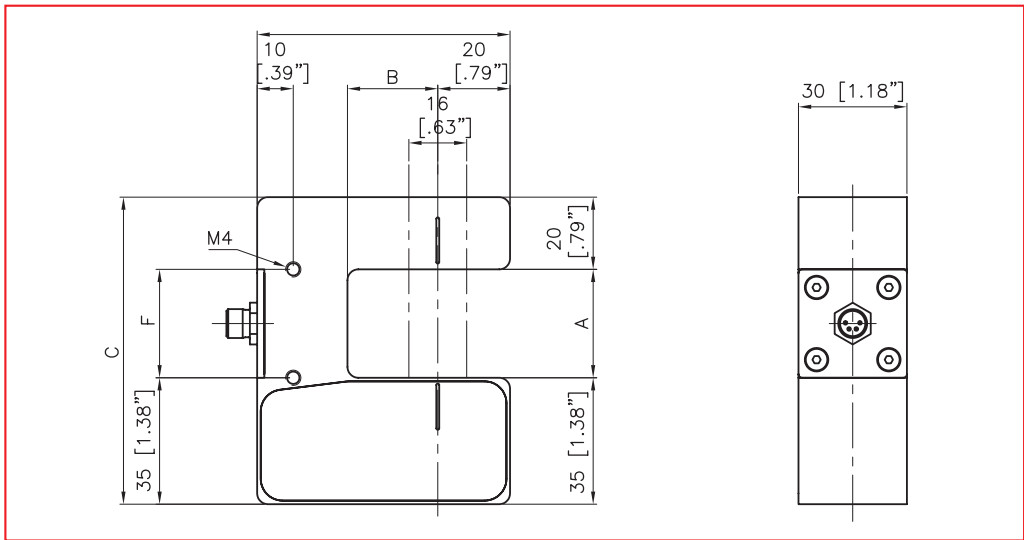
● AZS 01B/AZS 04B

AZS BlueFlash 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 BlueFlash 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. BlueFlash sensors are compatible with the full line of FMS web guide controllers and steering frames.

● Functional Description

The AZS 01B/AZS 04B Sensors work with a highly linear optical transceiver system of cutting edge technology. The integrated light sources emits 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 BlueFlash to handle very fast material speeds. Power supply and analogue output comply with industry standards.

AZS 01B / AZS 04B • Dimensions in mm



AZS 01B / AZS 04B • Dimensions in mm or [in]

Sensor Type	A		B		C		D		F	
	mm	in	mm	in	mm	in	mm	in	mm	in
AZS 01B	30	1.18	25	0.98	85	3.35	70	2.76	30	1.18
AZS 04B	90	3.54	80	3.15	145	5.71	125	4.92	90	3.54

Scope of Supply

- AZS 01B or AZS 04B sensor
- Installation and Operation Manual

Accessories (not in scope of supply)

- Sensor cable (BKS-SENSORCABLE.M8)
- Mounting bracket (BKS.W.V.20x20.US0XB.AZS0XB)

AZS 01B / AZS 04B • Technical Specification

Sensing Width	16 mm [0.62"]
Resolution	0.06 mm [0.0025"]
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

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