A-GAGE EZ-ARRAY Series

Product Specifications

Supply Voltage (Limit Values)	**Emitter**:12 to 30V dc **Receiver analog current models**:12 to 30V dc **Receiver analog voltage models**:15 to 30V dc
Supply Power Requirements	**Emitter/receiver pair**:less than 9 W (exclusive of load)
Delay at Power-up	2 seconds
Emitter/Receiver Range	400 mm to 4 m
Field of View	Nominally ± 3°
Beam Spacing	5 mm
Light Source	Infrared LED
Minimum Object Detection Size	**Straight scan, low-contrast**:5 mm **Straight scan, high-excess-gain**:10 mm **Note**:See quick start guide p/n 126701 for other scan mode values; size is tested using a rod.
Sensor Positional Resolution	**Straight scan**:5 mm **Double-edge scan**:2.5 mm **Single-edge scan**:2.5 mm
Teach Input (Receiver Gray Wire)	**Low**:0 to 2 V **High**:6 to 30 V or open (input impedance 22 K ohms)
Output Configuration	Two discrete output and two analog output **Discrete outputs**:Solid-State NPN (current sinking) or PNP (current sourcing) **Analog output**:0 to 10V dc (voltage sourcing) or 4 to 20 mA (current sourcing)
Output Rating	**Discrete output**:100 mA max. each output **OFF-state leakage current**: NPN:less than 200 uA @ 30V dc PNP:less than 10 uA @ 30V dc **ON-state saturation voltage**: NPN:less than 1.6V @ 100 mA PNP:less than 2.0V @ 100 mA **Analog voltage output**: Maximum current load:5 mA **Analog current output**: Maximum resistance load:(Vsupply–3) / 0.020
Serial Communication Interface	EIA-485 Modbus RTU (up to 15 nodes per communication ring) RTU binary format **Baud rate**:9600, 19.2K or 38.4K, 8 Data Bits, 1 Stop Bit, and Even, Odd, or 2 Stop Bits and No Parity
Scan Time	Scan times depend on scan mode and sensor length. Straight scan times

	range from 2.8 to 26.5 milliseconds.
Status Indicators	**Emitter**:Red status indicators Red ON steady:status OK Red flashing @ 1 hz:error **Receiver**: **7 Zone Indicators**: Red:blocked channels within zone Green:all channels clear within zone **3-digit 7-segment indicators**:measurement mode / diagnostic information **Sensor Status Bi-Color Indicator LED**: Red:hardware error or marginal alignment Green:OK **Modbus Activity Indicator LED**:Yellow **Modbus Error Indicator LED**:Red
System Configuration	**6-position DIP switch**:Used to set scanning type, measurement modes, analog slope and discrete output 2 function. Alternate software GUI interface provides additional options; see Section 1 and Section 5 of the full manual (p/n 130426).
Push Buttons (Receiver Interface)	Two momentary push buttons for alignment and gain level selection.
Connections	**Serial communication**:The receiver uses a PVC-jacketed, 5-conductor 22-gauge quick-disconnect cable, 5.4 mm diameter. QD cables are ordered separately. **Other Sensor connections**:8-conductor quick-disconnect cables (one each for emitter and receiver). Length may not exceed 75 meters long. PVC-jacketed cables measure 5.8 mm diameter, have shield wire; 22-gauge conductors. QD cables are ordered separately.
Construction	Aluminum housing with clear-anodized finish; acrylic lens cover
Environmental Rating	IEC IP65
Operating Conditions	**Temperature**:–40° to +70° C **Relative humidity**:95% at 50° C (non-condensing)