

Overview of Blackbird sensors

Omron Photoelectric Sensor

Model	Description	Range	IP rating	Link to manufacturer's site
E3Z-R66	General purpose retro reflective sensor (with reflector E39-R15). NPN output. PNP version available. Can in many application be replaced by E3AS-HL500LMT	0-4m	IP67	E3Z OMRON, Europe
E3ZM-R66	Stainless Steel house version of E3Z-R66. Can in many application be replaced by E3AS-HL500LMT	0-4m	IP67, IP69K	E3ZM OMRON, Europe
E3Z-D67	General purpose Diffuse-reflective sensor (without reflector). NPN output.	0-1m	IP67	
E3ZM-D67	Stainless Steel house version of E3Z-D67. Will be replaced by E3AS-HL500LMT	0-1m	IP67, IP69K	
E3S-DBN22	Transparent Object Detection Sensor (with reflector E39-R21). NPN output. Small spot version for detecting small objects or gaps. Versions with longer range available. PNP version available. Can in many application be replaced by E3AS-HL500LMT	0-500mm	IP67, IP69K	E3S-DB OMRON, Europe
E3AS-HL500LMT (PNP) E3AS-HL500LMN (NPN)	General purpose Distance-settable sensor (without reflector). Also detects transparent objects. Uses a line as opposed to a spot to detect uneven surfaces. Spot version also available. Version with higher accuracy but with only 150mm range are available.	35-500mm	IP67, IP67G, IP69K	E3AS OMRON, Europe

Omron Proximity Sensor

Model	Description	Range	IP rating	Link to manufacturer's site
E2A-M18KS08-M1-C1	Inductive Proximity Sensor. NPN output. PNP version available	0-8mm	IP67	E2A OMRON, Europe
E2Q5-N40ME3-M1	Inductive Proximity Sensor. NPN output. PNP version available	0-40mm	IP67	E2Q5 OMRON, Europe

Comet Temperature/Humidity Sensor

Model	Description	Range	IP rating	Link to manufacturer's site
T0110	Ambient temperature sensor. ATEX certified version available. 4-20mA analog output	-30 to +80 °C	IP65	Ambient temperature transmitter with 4-20mA output T0110 COMET SYSTEM, s.r.o.
T3110	Ambient humidity sensor. ATEX certified version available. 4-20mA analog output	0 to 100 % RH	IP65 electronic, IP40 sensor	Temperature humidity transmitter, 4-20mA outputs. Weather sensor for environment monitoring. COMET SYSTEM, s.r.o.

ifm

Model	Description	Range	IP rating	Link to manufacturer's site
VNB001	Vibration Sensor. Measures RMS speed in accordance with ISO 10816. 4-20mA analog output, and PNP output	0-500mm/s	IP67	VNB001 - Vibration sensor - ifm electronic

Lem

Model	Description	Range	IP rating	Link to manufacturer's site
AT 20 B420L	Split core transducers for measuring AC currents. Other ranges available. 4-20mA analog output	0-20A	IP40	https://www.lem.com/en/20-b420l

Other

Model	Description	Range	IP rating	Link to manufacturer's site
Omron position sensors	Photoelectric, Fiber optic, Proximity, Displacement...	-	-	Sensing OMRON, Europe
ifm position sensors	Photoelectric, Laser, Distance, Fibre optic, Inductive/Capacitive...	-	-	Position sensors - ifm electronic
ifm process sensors	Pressure, Vacuum, Flow, Level, Temperature...	-	-	Process sensors - ifm electronic
Sick position sensors	Photoelectric, Inclination, Inductive/Capacitive, Distance...	-	-	Product portfolio SICK
Sick process sensors	Pressure, Flow, Level, Temperature...	-	-	Product portfolio SICK