

DATAMAN ESD-SAFE BARCODE READERS

Minimizing electrostatic discharge damage

Electrostatic discharge (ESD), the sudden flow of static electricity between two objects, is a costly and dangerous threat to a broad range of industries, including biotechnology and pharmaceutical, electronics, energy production, materials, medical devices and semiconductors. ESD can damage electronic devices, spark explosions or fires in flammable environments and cause data failures. According to the EOS/ESD Association, ESD costs the electronics industry alone billions of dollars each year by affecting production yields, product quality and customer satisfaction.



ESD-safe housing prevents damage

Cognex® DataMan® ESD-safe fixed-mount and handheld barcode reader line is the broadest family of industrial barcode readers that combine ESD-safe plastics for all enclosure parts with the antistatic coating for all optical parts to prevent damage to components that are electrostatic discharge sensitive (ESDS).



DataMan ESD-safe handheld readers

DataMan 8050 series corded handheld barcode readers are designed with advanced algorithms to decode challenging 2D direct part mark (DPM) codes as well as 1D barcodes. The ESD protective and rugged housing ensure ESD safety in even the harshest industrial environments.

DataMan ESD-safe fixed-mount readers

DataMan fixed-mount barcode readers offer best-in-class performance with patented 1D and 2D code reading algorithms to read even the most challenging and degraded codes, along with flexible optics and lighting. They are easy to setup with auto-tuning and quick to deploy on your production line.

The following DataMan fixed-mount barcode readers are available with ESD-safe protective housing:

- DataMan 470 Series
- DataMan 370 Series
- DataMan 150/260 Series
- DataMan 70 Series

SPECIFICATIONS

	DataMan 8050 Series	DataMan 70 Series	DataMan 150/260 Series	DataMan 370 Series	DataMan 470 Series
Standards Compliance	IEC 61340-5-1:2016				
1D / 2D Codes	Yes				
Algorithms	1DMax with Hotbars, 2DMax with PowerGrid	1DMax with Hotbars, IDQuick	1DMax with Hotbars, 2DMax with PowerGrid, IDQuick		
Image Resolution	752 x 480	752 x 480 1280 x 960		2048 x 1536 2448 x 2048	
Image Sensor	Global Shutter				
Acquisition	N/A	Up to 60 fps		Up to 80 fps	
Lens Options	Fixed focus	6.2 mm 3-pos manual, 16 mm manual lens	6.2 mm 3-pos manual or liquid lens, 16 mm manual or liquid lens	Liquid lens 10 mm, 16 mm, 24 mm; C-mount 12 mm, 16 mm, 25 mm, 35 mm, 40 mm	
Trigger Button	Yes	No	Yes	Yes	Yes
Aimer	LED			LED or Laser	
Discrete Inputs	No	1 with optional Serial/IO cable	2 opto-isolated	2 or 4 opto-isolated	
Discrete Outputs	No	1 with optional Serial/IO cable	2 or 4 opto-isolated		
Other I/O Points	No	No	Tune button	Tune button	Tune button
Status Outputs	LED and beeper	1 LED	5 LED, beeper	Beeper, 5 LED, 10 LED bar array, 360-degree indicator	
Lighting	Integrated red LED		Red, white, blue, IR, high-power red (polarized option)	Red, blue, or IR; diffuse, polarized, HPIL, HPIT, external	
Communications	USB	USB, RS-232 with accessory cable	USB, RS-232, Ethernet	RS-232, Ethernet	
Power	5 VDC-6 VDC	5 VDC-24 VDC or USB Bus powered	5 VDC-24 VDC, USB Bus powered or PoE Class 1	24 VDC	
Power Consumption	2.5 W	2.5 W	3.0 W	5.0 W (18 W with external light)	
Weight	279 g	42 g	128 g or 142 g	165 g	
Dimensions	210 mm x 115 mm x 85 mm	42.4 mm x 22.2 mm x 38.7 mm	From 43.9 mm x 62.8 mm x 22.3 mm	From 73 mm x 54 mm x 42 mm	126.8 mm x 60.5 mm x 77.1 mm
Operating Temperature	0 °C-40 °C			0 °C-57 °C	
Storage Temperature	-40 °C-60 °C	-10 °C-60 °C		-20 °C-80 °C	
Operating and Storage Humidity	0% to 95%, non-condensing				
Protection	IP65			IP67	
RoHS Certified	Yes				
Approvals (CE, Safety, FCC)	CE, CSA, UL, 60950	Yes			
Setup Operating System	Windows 7 and 10				

COGNEX

Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

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