



Top product features!

- Robust design and compact metal housing provide long life and reliability in industrial environments
- CMOS image sensor and digital signal processor with no moving parts for durability
- Reliably reads dot-peened, laser-etched and printed data matrix codes as well as printed bar codes
- Configurable four-quadrant lighting improves readability, reduces glare and the need for external lighting
- Easy application Setup Wizard guides you step-by-step with advanced functionality for demanding applications

Reliable identification of data matrix and 1D codes



The ifm Multi-Code Reader is designed to read 2D data matrix codes and 1D bar codes in high speed industrial automation applications.

The versatile Multi-Code Reader can identify, verify and qualify most marking methods including dot-peened, laser-etched and printed data matrix codes as well as printed barcodes.

The Multi-Code Reader features a maximum speed of 7 meters/second. The unit reads three types of 2D codes: ECC200, PDF-417 and QR as well as 26 styles of printed barcodes.

A better alternative from ifm

Features	ifm
Robust housing	✓
Reads both 2D and 1D codes	✓
CMOS image sensor	✓
Reads all marking methods	✓
Orientation independent	✓
Configurable quadrant lighting	✓
7 meters/second line speed	✓
Easy Setup Wizard	✓
Switching output for I/O	✓
Ethernet TCP/IP	✓
Price – 50% lower than current technologies	\$936

Challenge (1D Barcode)



Traditional barcode readers can only read the 1D code in horizontal or vertical positions.

ifm Solution (1D Barcode)



ifm's camera based Multicode Readers can read 1D barcodes in multiple orientations.



Company	IO-Link		Position Sensors					Motion Control	Vision Sensors
	IO-Link	Inductive	Capacitive	Cylinder / valve position	Photoelectrics / lasers / fiber optics	Distance / Application specific	Ultrasonic	Encoders / Speed monitors	2D / 3D inspection
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Product + accessory selector




Dimensions (mm)	Lighting	Max. Field of View Size	Readings	Max. Motion Speed	Process Interface	Operating Voltage	Supply Current	Part No.	List Price (1-pc.)
CMOS image sensor, black and white, VGA resolution 640 x 480									
80 x 42 x 53.5	Visible red	68 x 48 mm	20 Hz	7 m/s	Ethernet TCP/IP, EtherNet/IP, RS-232	24 VDC ± 10 %	300 mA	O2I300	\$959.00
80 x 42 x 53.5	Visible red	132 x 94 mm	20 Hz	7 m/s	Ethernet TCP/IP, EtherNet/IP, RS-232	24 VDC ± 10 %	300 mA	O2I302	\$959.00
80 x 42 x 59	Visible red	400 x 300 mm	20 Hz	7 m/s	Ethernet TCP/IP, EtherNet/IP, RS-232	24 VDC ± 10 %	300 mA	O2I304	\$959.00
80 x 42 x 53.5	Infrared	68 x 48 mm	20 Hz	7 m/s	Ethernet TCP/IP, EtherNet/IP, RS-232	24 VDC ± 10 %	300 mA	O2I301	\$959.00
80 x 42 x 53.5	Infrared	132 x 94 mm	20 Hz	7 m/s	Ethernet TCP/IP, EtherNet/IP, RS-232	24 VDC ± 10 %	300 mA	O2I303	\$959.00
80 x 42 x 59	Infrared	400 x 300 mm	20 Hz	7 m/s	Ethernet TCP/IP, EtherNet/IP, RS-232	24 VDC ± 10 %	300 mA	O2I305	\$959.00

Accessories

Type	Description	Part No.	List Price (1-pc.)
	Mounting Set, 100 mm rod	U60042	\$45.00
	Mounting Set, 100 mm rod with rail mount cube	U60043	\$51.00
	Plastic lens for diffusing light	E21165	\$119.00
	Plastic protective lens for food and beverage applications	E21166	\$102.00
	Glass protective lens	E21168	\$102.00

See pages 140 - 141 for illumination.

Cordsets

Type	Description	Part No.	List Price (1-pc.)
	M12 Micro DC (8-pin) 2 m, PUR	E11950	\$29.00
	M12 Micro DC (8-pin) 5 m, PUR	E11807	\$36.00
	M12 Micro DC (8-pin) 10 m, PUR	E11311	\$66.00
	M12 Micro DC (8-pin) 2 m, PUR	E11231	\$29.00
	M12 Micro DC (8-pin) 5 m, PUR	E11232	\$36.00
	M12 Micro DC (8-pin) 10 m, PUR	E11806	\$65.00
	Ethernet cable, 2 m, M12 D-coded / RJ45, cross-link	E11898	\$45.00
	Ethernet cable, 5 m, M12 D-coded / RJ45, cross-link	E18422	\$54.00
	Ethernet cable, 10 m, M12 D-coded / RJ45, cross-link	E18423	\$69.00

 Can't find the right sensor for your application, call 800-441-8246 or visit www.ifm.com/us

Technical Specs

Maximum load current:	100 mA (per switching output)
Supply current:	< 300 mA
Detection rate:	≤ 20 Hz
Maximum motion speed:	≤ 7 m/s
Lighting:	infrared 850 nm; visible red 625 nm
Operating voltage:	24 VDC ± 10 %
Operating temperature:	14...122 °F (-10...50 °C)
Protection rating:	IP67
Material:	Housing: die-cast zinc Front pane: glass LED window: polycarbonate
Trigger mode:	External 24 V, PNP, continuous, TCP/IP, Ethernet/IP
Parameter setting / process interface:	Ethernet 10 Base-T, Ethernet TCP, Ethernet IP



Class 2 laser

Reliable service center

The ifm service center team provides tech support, product quotes, delivery information and order placement.

-  **Place orders, tech support**
800-441-8246
-  **Visit our product catalog**
www.ifm.com/us
-  **Shop for products online**
Easy ordering via eShop

Safety Technology

Process Sensors

Industrial Networks

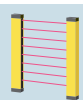
ID Systems

Machine Condition

Power Supplies

Wiring Technology

Safety products



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Pressure



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Flow



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Level



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Temperature



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AS-i network



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Safety systems



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RF identification systems



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Diagnostic systems



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Power supplies



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Cordset solutions



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