



L: 45 mm; W: 40 mm; H: 24.13 mm

Features & Benefits:

- High Performance on Poorly Printed and Low Contrast Barcode Symbols for Maximum Accuracy
- Configurable Scan Angle of 47° and 35°, with Ability to Control Angle for Application Demands
- Compact, Durable Housing

Linear Laser Fixed Mount Scanner

JADAK's FM-109 is a compact, durable fixed-mount laser barcode scanner for premium linear scanning on all types of 1D barcodes, including poorly printed and low contrast symbols.

The FM-109 offers a configurable scan angle of 47° and 35° for Original Equipment Manufacturer (OEM) devices requiring a flexible, expanded working range.

As one of the smallest, lightest and brightest fixed-mount scanners available, the FM-109 is ideal for accurate automated data collection in OEM device designs with space constraints. It can also be used as a stand alone fixed-mount scanner.

The FM-109 features a configurable scan angle and a working range from near contact to over 60.96 cm (24") to ensure high first-time read rates for maximum productivity. The FM-109 is easy to program and configure, enabling you to cut your development time and bring your product to market faster. With durable housing and built-in RS-232 and USB interface, the FM-109 enables your project team to quickly and confidently integrate high performance data capture into many applications.

Applications:

- OEM Devices

	Class I	Class II
Scanning Performance		
Source	Visible Laser Diode 650 nm	Visible Laser Diode 650 nm
Scan Rate	104 +/- 12 scans/sec (bi-directional)	104 +/- 12 scans/sec (bi-directional)
Scan Angle	47° +/- 3° (typical); 35° +/- 3° (narrow)	47° +/- 3° (typical); 35° +/- 3° (narrow)
Scan Pattern	Linear	Linear
Minimum Print Contrast	25% absolute dark/light reflectance at 650 nm	25% absolute dark/light reflectance at 650 nm
Programmable Parameters	Laser On Time, Aim Duration, Power Mode, Trigger Mode, Bi-directional Redundancy, Symbology Types/Lengths, Data Formatting, Serial Parameters, Beeper Tone, Scan Angle	Laser On Time, Aim Duration, Power Mode, Trigger Mode, Bi-directional Redundancy, Symbology Types/Lengths, Data Formatting, Serial Parameters, Beeper Tone, Scan Angle
Symbologies Supported	All major 1D Barcodes	All major 1D Barcodes
Regulatory		
Laser Classification	Class I (Extended Range), Intended for use in CDRH Class 1 and IEC Class 1 Devices	Intended for use in CHRH Class II and IEC Class II devices
Electrical Safety	EN/IEC 60950	EN/IEC 60950
Environmental	RoHS compliant	RoHS compliant
EMI/RFI	FCC Part 15 Class B, EN 55024/CISPR 22, AS 3548, VCCI	FCC Part 15 Class B, EN 55024/CISPR 22, AS 3548, VCCI
Mechanical/Electrical		
Power (5V)	Input Voltage: 5V +/- 10% Scan Current: 90mA Standby Current: 15mA	Input Voltage: 5V +/- 10% Scan Current: 90mA Standby Current: 15mA
Environmental		
Operating Temperature	-20°C to 50°C (-4°F to 140°F)	-20°C to 50°C (-4°F to 140°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% non-condensing	5% to 95% non-condensing
Ambient Light	Artificial: 4844 Lux (450 ft. candles) Sunlight: 107,640 Lux (10,000 ft. candles)	Artificial: 4844 Lux (450 ft. candles) Sunlight: 107,640 Lux (10,000 ft. candles)

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting. The company is ISO 9001 and ISO 13485 registered.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

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