Cognex DM363X Data Sheet (English)

Product Overview

Cognex DM363X is a high-performance fixed-mount barcode reader belonging to the DataMan 360 series, designed for industrial-grade 1D/2D and DPM code reading with high precision and reliability. It is ideal for manufacturing, logistics, and supply chain applications requiring accurate and fast barcode scanning.

Key Specifications

Category	Details
Image Sensor	1/1.8" CMOS with global shutter, 4.5 µm square pixels
Resolution	1600 × 1200 pixels (UXGA)
Image Acquisition Speed	Up to 40 fps at full resolution
Illumination Options	Internal non-HPIL (max 250 mA, 5 W), internal HPIL (max 2.2 A, 6 W), external illumination (up to 1.2 A average, 45 W)
Lens Options	S-Mount 10.3 mm, 16 mm, 25 mm; C-Mount 24 mm (liquid lens only)
Connectivity	8-pin M12 (Ethernet), 12-pin M12 (power), 5-pin M12 (external light control), Micro SD card slot, RS-232
Digital I/O	1× trigger input (10-28 VDC), 3× discrete inputs (10-28 VDC), 4× discrete outputs (26.4 VDC, 50 mA sink/source)

Power Supply	24 VDC ±10% (LPS or NEC Class 2)
Operating Temperature	0°C - 40°C (32°F - 104°F)
Storage Temperature	-10°C - 60°C (14°F - 140°F)
Protection Rating	IP65 (with proper connector caps and front cover)
Supported Codes	1D (Codabar, Code 39, 128, etc.), 2D (Data Matrix, QR Code, etc.), stacked codes (PDF 417, MicroPDF 417)

Compliance and Safety

- Regulatory Model: 1ABG
- Laser Safety: Class 2 (650 nm, <1 mW), compliant with FDA/CDRH Laser Notice No. 50, IEC 60825-1
- LED Safety: Red (Exempt Risk Group), blue/white (Risk Group 1, IEC 62471)
- Electromagnetic Compliance: FCC Part 15 Class A, ICES-003, EN 55022 Class A, EN 55024, EN 60950

Ordering Information

- Part Number: 825-10157-1R (typical)
- Accessories: DM360-HPIL-RE (HPIL), various lenses, lens covers, and mounting brackets

Notes

- Duty cycle limits apply for internal illumination above 25°C to prevent LED aging.
- C-Mount lens thread length ⩽5.4 mm; back of lens must not extend beyond threads.