MV-SC2005AM

0.5 MP AGV Navigation Sensor

CE   **RoHS**

Introduction

With built-in code reading algorithm, MV-SC2005AM AGV navigation sensor can read DM-12 and DM-14 symbologies, and its max. reading speed reaches 100 codes/sec. It has good robustness and can effectively read codes with spots, defects and low contrast radio.
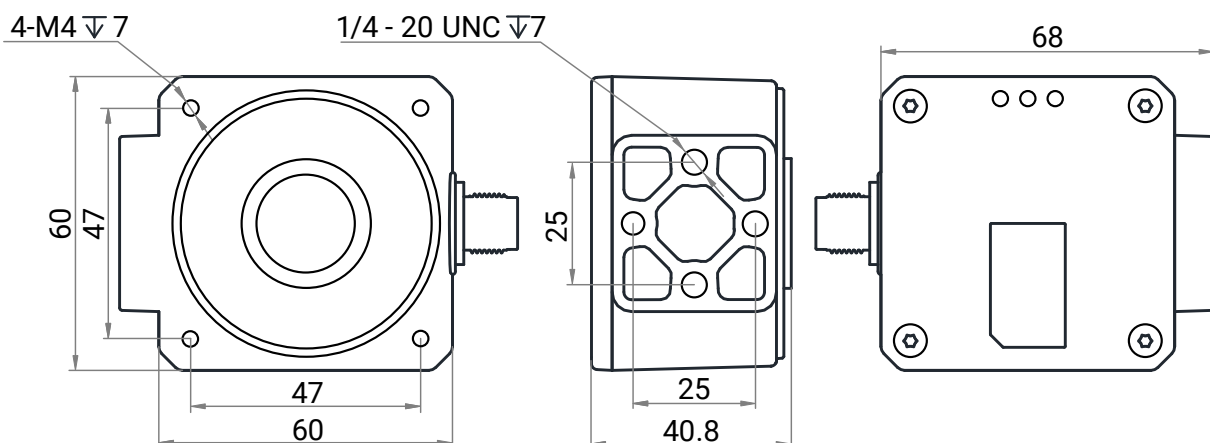
Applicable Industry

AGV navigation

Available Model

MV-SC2005AM-02WBN

Dimension

Key Feature

- Built-in code reading algorithm to read DM codes.
- Provides good robustness to read codes with spots, defects and low contrast radio.
- Adopts CMOS sensor to provide high-quality images.
- Adopts multiple indicators for displaying status and debugging.
- Adopts M12 lens and supports large field of view.
- Better optical design to provide uniform illumination and applicable to strong reflection.

Unit: mm

Specification

Model	MV-SC2005AM-02WBN
Performance	
Symbologies	2-dimensional codes: DM-12, DM-14
Max. frame rate	100 fps
Max. reading speed	100 codes/sec
Max. running speed	3 m/sec (it is the AGV's max. running speed)
Sensor type	CMOS, global shutter
Pixel size	4.8 µm × 4.8 µm
Sensor size	1/3.6"
Resolution	800 × 600
Exposure time	20 µs to 9000 µs
Gain	1 dB to 330 dB
Mono/color	Mono
Communication protocol	SmartSDK, UDP, Serial
Electrical feature	
Data interface	Fast Ethernet (100 Mbit/sec), RS-485
Digital I/O	12-pin M12 connector provides power supply and RS-485 × 1
Power supply	24 VDC
Max. power consumption	18 W@24 VDC (self light source enabled) 3 W@24 VDC (self light source disabled)
Mechanical	
Focal length	2.5 mm
Working distance	100 mm ± 5 mm
Displacement accuracy	0.1 mm
Angle accuracy	0.1°
Field of view	93.8°
Field of view (range)	170 mm × 130 mm (it is the field of view under 100 mm ± 5 mm working distance. If the working distance changes, the field of view will vary too.)
Dimension	68 mm × 60 mm × 40.8 mm (2.7" × 2.4" × 1.6")
Weight	Approx. 200 g (0.4 lb.)
Ingress protection	IP65 (with proper installation of waterproof lens cap)
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)
Humidity	10% to 90% RH, non-condensing
General	
Client software	IDMVS
Certification	CE, RoHS