

Product type designation

MV420 SR-B code reader

SIMATIC MV420 SR-B;BASIC TYPE COMPACT CODE READER FOR 1D AND 2D CODES;IP67



Suitability for operation

1D codes: Int. 2/5, Code 128, Code 39, EAN 13, EAN 8, UPC-A, UPC-E, GS1, 2D codes: DMC, PDF417 (without: Truncated, Micro and Macro), QR (without: Micro and Macro), Vericode

Interfaces

Type of electrical connection

- of Industrial Ethernet interface
- of the RS 422 interface
- of the RS 232 interface
- for supply voltage
- at the digital inputs/outputs

M12, d-coded
M16, 12-pin, male
M16, 12-pin, male
M16, 12-pin, male
M16, 12-pin, male

Number of digital inputs

1

Number of digital outputs

3

Digital input version

One high-speed trigger input

Digital output version

2 isolated outputs 50 mA, 1 high-speed trigger input for external lighting

Optical data

Design of image sensor / of the camera

CMOS chip, VGA (640 x 480), WVGA (752 x 480)

Type of image capture

Global shutter

Range

10 ... 400 mm

Range / Note

Adjustable within the range

Mounting type / of lens

Fixed (M12)

Type of light source

Integrated lighting or external lighting according to accessories list

Image acquisition frequency / maximum

50 Hz

Code reading rate / maximum

29 1/s

Type of focusing	Manual adjustment on the lens cover
Supply voltage, current consumption, power loss	
Supply voltage	
• for DC / Rated value	24 V
• for DC	19.2 ... 28.8 V
Consumed current / for DC / at 24 V	
• typical	0.17 A
• maximum	2 A
Buffering time / in the event of power failure / minimum	0.01 s
Mechanical data	
Material	Die-cast aluminum
Color	petrol blue
Permitted ambient conditions	
Ambient temperature	
• during operation	0 ... 50 °C
• during storage	-30 ... +70 °C
• during transport	-30 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP67
Shock resistance	According to IEC 60068-2
Shock acceleration	150 m/s ²
Resistance against vibration	10 m/s ²
Design, dimensions and weight	
Width	52.5 mm
Height	70.7 mm
Depth	39.5 mm
Net weight	0.25 kg
Mounting type	2 x M4 screws
Product properties, functions, components / general	
Product property / silicon-free	Yes
Display version	4 LEDs
Standards, specifications, approvals	
Certificate of suitability	CE, KCC, F&B suitable, UL
MTBF / at 40 °C	95 y
MTBF	95 y
Accessories	
accessories	Mounting brackets, built-in ring lamps, M12 lenses
Further Information / Internet Links	

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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