

Product type designation

MV420 SR-P code reader (body)

SIMATIC MV420 SR-P Body; Compact optical reader for 1D and 2D codes; Multicode, Autotrigger and ID-Genius; very high read speed basic unit without lighting, lens and protective lens barrel



Suitability for operation

1D codes: Int. 2/5, Code 128, Code 39, EAN 13, EAN 8, UPC-A, UPC-E, GS1, 2D codes: DMC, dot code, 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

3

Number of digital outputs

3

Digital input version

1 high-speed trigger input, 2 opto-isolated inputs (NPN, PNP capability) optionally as output

Digital output version

1 high-speed strobe output for external lighting, 2 isolated outputs optionally as input, short-circuit-proof, max. 100 mA

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	M12 screw-in lens from list of accessories
Type of light source	Integrated ring lamp according to accessories list
Image acquisition frequency / maximum	80 Hz
Code reading rate / maximum	50 1/s
Type of focusing	Manual adjustment on the lens cover

Supply voltage, current consumption, power loss

Supply voltage	
<ul style="list-style-type: none"> • at DC / Rated value • at DC 	24 V 19.2 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical • maximum 	0.17 A 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	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	0 ... 50 °C -30 ... +70 °C -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
Vibrational acceleration	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 feature / silicon-free	Yes
Display version	4 LEDs

Standards, specifications, approvals

Certificate of suitability	CE, KCC, F&B suitable, UL
MTBF	95 y

Accessories

accessories	Mounting brackets, built-in ring lamps, M12 lenses
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Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL <https://support.industry.siemens.com/cs/ww/en/view/67384964>
- to website: Industrial communication <http://www.siemens.com/codereader>
- to website: Industry Mall <https://mall.industry.siemens.com>
- to website: Information and Download Center <http://www.siemens.com/industry/infocenter>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <https://support.industry.siemens.com>

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