SIEMENS

Product type designation	MV420 SR-P code reader
	SIMATIC MV420 SR-P; PERFORMANCE TYPE; COMPACT CODE READER FOR 1D AND 2D CODES;IP67 INCL. MULTICODE, AUTOTRIGGER AND ID-GENIUS; VERY HIGH READING SPEED

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	M12, d-coded
• of the RS 422 interface	M16, 12-pin, male
• of the RS 232 interface	M16, 12-pin, male
• for supply voltage	M16, 12-pin, male
• at the digital inputs/outputs	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	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	
• 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/s²
Resistance against vibration	10 m/s²

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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