SIEMENS

Data sheet 6GF3420-0AA20

Product type designation

MV420 SR-B code reader

SIMATIC MV420 SR-B; Base model Compact optical 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 	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	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

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	
● at DC / Rated value	24 V
• at DC	19.2 28.8 V
Consumed current / at 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

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
Vibrational acceleration	10 m/s²

Design, dimensions and weights	
Width	52.5 mm
Height	70.7 mm
Depth	39.5 mm
Net weight	0.25 kg
Mounting type	2 x M4 screws

Product features, product functions, product components / general	
Display version	4 LEDs
Protocol / is supported / Media Redundancy Protocol (MRP)	No

Product function / of the PROFINET IO device / is	No
supported / H-Sync forwarding	
Protocol / is supported	
• LLDP	Yes
 PROFINET IO protocol 	Yes
• TCP/IP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v3	No
• DCP	Yes
 EtherNet/IP protocol 	No
• OPC UA	No
Product feature / silicon-free	Yes
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Standards, specifications, approvals	OF 1/00 F0P
Certificate of suitability	CE, KCC, F&B suitable, UL
MTBF	95 y

accessories

Mounting brackets, built-in ring lamps, M12 lenses

Internet-Link

https://support.industry.siemens.com/cs/ww/en/view/67384964 • to website: Selector SIMATIC NET

SELECTION TOOL

http://www.siemens.com/codereader • to website: Industrial communication

https://mall.industry.siemens.com • to website: Industry Mall

http://www.siemens.com/industry/infocenter • to website: Information and Download Center

http://automation.siemens.com/bilddb • to website: Image database

• to website: CAx Download Manager http://www.siemens.com/cax

• to website: Industry Online Support https://support.industry.siemens.com

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