

product type designation

MV420 SR-B code reader

***** spare part ***** 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	<ul style="list-style-type: none"> of Industrial Ethernet interface of the RS 422 interface of the RS 232 interface for supply voltage at the digital inputs/outputs 	<p>M12, d-coded</p> <p>M16, 12-pin, male</p> <p>M16, 12-pin, male</p> <p>M16, 12-pin, male</p> <p>M16, 12-pin, male</p>
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
fastening method / of lens	Fixed (M12)
type of light source	Integrated lighting or external lighting according to accessories list
picture recording 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		24 V
<ul style="list-style-type: none"> at DC / rated value at DC 		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

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> during operation 	50 °C

<ul style="list-style-type: none"> during storage 	-30 ... +70 °C
<ul style="list-style-type: none"> 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
vibrational acceleration	10 m/s ²

design, dimensions and weights

width	52.5 mm
height	70.7 mm
depth	39.5 mm
net weight	0.25 kg
fastening method	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 supported / H-Sync forwarding	No
protocol / is supported	
<ul style="list-style-type: none"> LLDP 	Yes
<ul style="list-style-type: none"> PROFINET IO protocol 	Yes
<ul style="list-style-type: none"> TCP/IP 	Yes
<ul style="list-style-type: none"> SNMP v1 	Yes
<ul style="list-style-type: none"> SNMP v2 	No
<ul style="list-style-type: none"> SNMP v3 	No
<ul style="list-style-type: none"> DCP 	Yes
<ul style="list-style-type: none"> EtherNet/IP protocol 	No
<ul style="list-style-type: none"> OPC UA 	No
product feature / silicon-free	Yes

standards, specifications, approvals

certificate of suitability	CE, KCC, F&B suitable, UL
MTBF	95 a

accessories

accessories	Mounting brackets, built-in ring lamps, M12 lenses
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further information / internet links

internet link	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool 	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul style="list-style-type: none"> to website: Industrial communication 	http://www.siemens.com/codereader
<ul style="list-style-type: none"> to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAx-Download-Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com

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