

### 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	
<ul style="list-style-type: none"> <li>of Industrial Ethernet interface</li> <li>of the RS 422 interface</li> <li>of the RS 232 interface</li> <li>for supply voltage</li> <li>at the digital inputs/outputs</li> </ul>	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
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	
<ul style="list-style-type: none"> <li>at DC / rated value</li> <li>at DC</li> </ul>	24 V 19.2 ... 28.8 V
consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> <li>typical</li> <li>maximum</li> </ul>	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	
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<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	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 <sup>2</sup>
vibrational acceleration	10 m/s <sup>2</sup>
<b>design, dimensions and weights</b>	
width	52.5 mm
height	70.7 mm
depth	39.5 mm
net weight	0.25 kg
fastening method	2 x M4 screws
<b>product features, product functions, product components / general</b>	
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"> <li>LLDP</li> <li>PROFINET IO protocol</li> <li>TCP/IP</li> <li>SNMP v1</li> <li>SNMP v2</li> <li>SNMP v3</li> <li>DCP</li> <li>EtherNet/IP protocol</li> <li>OPC UA</li> </ul>	Yes Yes Yes Yes No No Yes No No
product feature / silicon-free	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	CE, KCC, F&B suitable, UL
MTBF	95 y
<b>accessories</b>	
accessories	Mounting brackets, built-in ring lamps, M12 lenses
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a> <a href="http://www.siemens.com/codereader">http://www.siemens.com/codereader</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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