

Product type designation

**MV440 SR code reader**  
SIMATIC MV440 SR OPTICAL READER RESOLUTION: 640 X 480 PIXEL; FOR 1D/2D CODE READING, OCR AND OBJECT RECOGNITION; FIELD OF VIEW AND DISTANCE: VARIABLE; POE; IP67(WITH 6GF3440-8AC1X); DELIVERY: READER, CDROM AND PLASTIC-PROTECTION TUBE; (WITHOUT: CABLE, LIGHTS, LENS, LICENSES)



Suitability for operation

1D codes: Int. 2/5, Code 128, Code 93, Code 39, Code 32, EAN 13, EAN 8, UPC-A, UPC-E, GS1, Pharmacode, Postnet, 2D codes: DMC, dot code, PDF417 (without: Truncated, Micro and Macro), QR (without: Micro and Macro), Vericode, text recognition: OCR-A, Semifont M13, similar fonts, code verification: ISO/IEC 29158, Siemens DPM, ISO/IEC 15415, AS9132 Rev. A, ISO/IEC 16416

Interfaces

|                                    |                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------|
| Type of electrical connection      |                                                                                               |
| • of Industrial Ethernet interface | M12, d-coded, PoE                                                                             |
| • of the RS 422 interface          | M12, 8-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           | 5                                                                                             |
| Number of digital outputs          | 5                                                                                             |
| Digital input version              | 1 high-speed trigger input, 4 opto-isolated inputs (NPN, PNP capability) optionally as output |

|                        |                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Digital output version | 1 high-speed strobe output for external lighting, 4 isolated outputs optionally as input, short-circuit-proof, max. 100 mA, |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|

| Optical data                           |                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------|
| Design of image sensor / of the camera | CCD chip 1/3", 640 x 480                                                                       |
| Type of image capture                  | Global shutter with manual or automatic exposure time                                          |
| Range                                  | 70 ... 3000 mm                                                                                 |
| Range / Note                           | Using C-mount lenses and lens accessories, the range can be exactly matched to the application |
| Mounting type / of lens                | C mount lens connection with Plexiglas lens protection, 65 mm diameter                         |
| Type of light source                   | Integrated lighting or external lighting according to accessories list                         |
| Image acquisition frequency / maximum  | 80 Hz                                                                                          |
| Code reading rate / maximum            | 80 1/s                                                                                         |
| Type of focusing                       | Manual adjustment on the lens                                                                  |

| 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                                                | 0.27 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                                                               | 100 m/s <sup>2</sup>     |
| Vibrational acceleration                                                         | 10 m/s <sup>2</sup>      |

| Design, dimensions and weight |         |
|-------------------------------|---------|
| Width                         | 68 mm   |
| Height                        | 122 mm  |
| Depth                         | 45 mm   |
| Net weight                    | 0.55 kg |

|               |               |
|---------------|---------------|
| Mounting type | 4 x M4 screws |
|---------------|---------------|

## Product properties, functions, components / general

|                                |        |
|--------------------------------|--------|
| Product feature / silicon-free | Yes    |
| Display version                | 5 LEDs |

## Standards, specifications, approvals

|                            |                           |
|----------------------------|---------------------------|
| Certificate of suitability | CE, KCC, F&B suitable, UL |
| MTBF / at 40 °C            | 88 y                      |
| MTBF                       | 88 y                      |

## Accessories

|             |                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| accessories | Licenses (verification and text recognition), mounting brackets, built-in ring lights, external ring lights, C-mount lenses, protective barrels for lenses |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Further Information / Internet Links

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| Internet-Link                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET 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><br><br><a href="http://www.siemens.com/codereader">http://www.siemens.com/codereader</a><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |

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