

Product type designation

MV440 UR code reader

SIMATIC MV440 UR optical Reader; Resolution: 1600x 1200 Pixels; for 1D/2D code reading, text recognition and object detection; field of image and distance: variable; PoE; IP67 (with 6GF3440-8AC1X); Delivery: Reader, CD-ROM and plastic protective tube; (without: cable, luminaire, 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
- of the RS 422 interface
- of the RS 232 interface
- for supply voltage
- at the digital inputs/outputs

M12, d-coded, PoE

M12, 8-pin, male

M16, 12-pin, male

M16, 12-pin, male

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,
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Optical data

Design of image sensor / of the camera	CCD chip 1/1.8", 1600 x 1200
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	25 Hz
Code reading rate / maximum	25 1/s
Type of focusing	Manual adjustment on the lens

Supply voltage, current consumption, power loss

Supply voltage	
<ul style="list-style-type: none"> • at DC / Rated value • at DC 	24 V 19.2 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical • maximum 	0.27 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 • during storage • during transport 	0 ... 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	100 m/s ²
Vibrational acceleration	10 m/s ²

Design, dimensions and weights

Width	68 mm
Height	122 mm
Depth	45 mm
Net weight	0.55 kg

Mounting type	4 x M4 screws
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Product features, product functions, product components / general

Display version	5 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	
• 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

Standards, specifications, approvals

Certificate of suitability	CE, KCC, F&B suitable, UL
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
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Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/codereader
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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