

### Product type designation

### Code Reader MV540 H

SIMATIC MV540 H optical reader Resolution: 1280 x 1024 pixels;  
Function: 1D/2D code reading; Image field and distance: variable,  
(ABH lens object); PoE; IP67 with 6GF3540-8AC11; Delivery:  
Reader and SD card adapter



### 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), Q R (without: Micro and Macro), verification uncalibrated

### 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, 12-pin, male

M12, 12-pin, male

M12, 12-pin, male

M12, 12-pin, male

#### Number of digital inputs

1

#### Number of digital outputs

3

#### Digital input version

1 fast trigger input

#### Digital output version

1 fast strobe output, 2 potential-free outputs (NPN- PNP-capable)

### Optical data

#### Design of image sensor / of the camera

CMOS-Chip, 1280 x 1024

#### 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
Type of light source	Integrated lighting or external lighting according to accessories list
Image acquisition frequency / maximum	33 Hz
Code reading rate / maximum	30 1/s
Type of focusing	Manual adjustment on the lens

#### 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>	0.2 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"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	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	300 m/s <sup>2</sup>
Vibrational acceleration	40 m/s <sup>2</sup>

#### Design, dimensions and weights

Width	68 mm
Height	122 mm
Depth	45 mm
Net weight	0.55 kg
Mounting type	4 x M4 screws

#### Product features, product functions, product components / general

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
- PROFINET IO protocol
- TCP/IP
- SNMP v1
- SNMP v2
- SNMP v3
- DCP
- EtherNet/IP protocol
- OPC UA

Yes  
Yes  
Yes  
Yes  
No  
No  
Yes  
No  
No

Product feature / silicon-free Yes

### Standards, specifications, approvals

MTBF 66 y

### Further information / Internet-Links

#### Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/67384964>  
<http://www.siemens.com/codereader>  
<https://mall.industry.siemens.com>  
<http://www.siemens.com/industry/infocenter>  
<http://automation.siemens.com/bilddb>  
<http://www.siemens.com/cax>  
<https://support.industry.siemens.com>

**last modified:**

04/02/2020