

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

SIEMENS SIMATIC S7

6GF3440-1CD10

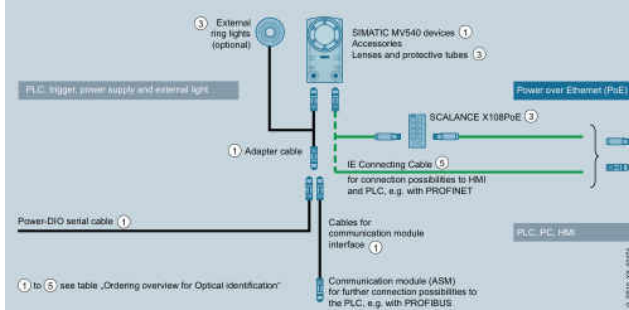
SIMATIC MV440 STATIONARY CODE READER

Applicable product family: SIMATIC machine vision systems

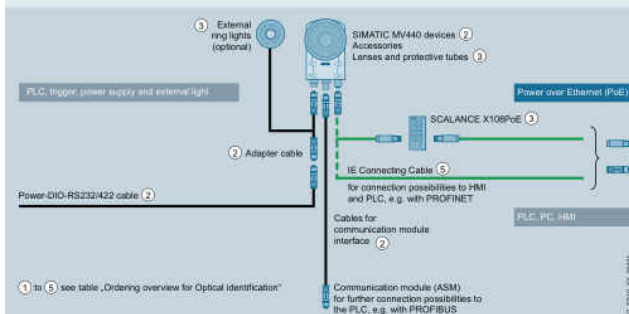
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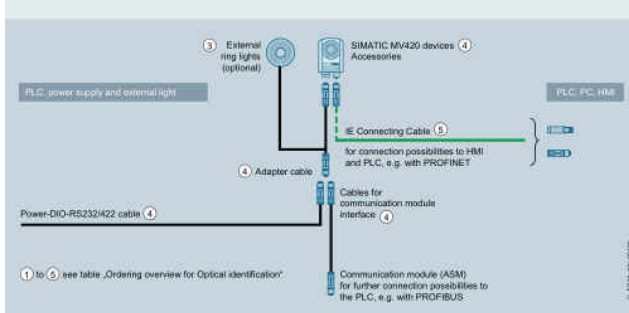
The following pages are selected from the supplied manufacturer document and retain their original page content.



SIMATIC MV540 configuration



SIMATIC MV440 configuration



SIMATIC MV420 configuration

Published by
Siemens Industry, Inc. 2017
1700 Technology Drive
Folsom, CA 95630-3000
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Order No. 6ES7 300-1EA00-0AA0
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SIMATIC Ident
Optical Identification
Reading and verification of 1D/2D codes
Text and Object recognition
Ordering overview – Edition 12/2017

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Product	Comments	Article number *
Optical handheld readers		
	Robust and impressive industrial barcode and data matrix code reader. For data matrix codes with medium to high contrast. Communication with a host computer via USB or RS232. Can also be connected to communication module RF170C through a spiral cable.	6GF3320-0HTD1
	Robust and impressive industrial barcode and data matrix code reader. For data matrix codes with medium to high contrast. Suitable for wireless communication via bluetooth radio interface. Communication with a host computer via USB.	6GF3325-0HTD1
	Robust and powerful industrial barcode and data matrix code reader, also suitable for low-contrast codes. Features a USB cable. Communication with a host computer via USB or RS232. Can also be connected to communication module RF170C through a spiral cable.	6GF3340-0HTD1

For accessories, see ID 10 Catalog

Optical identification ordering overview			
	Product ¹⁾	Comments	Article number ²⁾
SIMATIC MV40 stationary optical reader ①			
	SIMATIC MV40 S	Resolution: 800 x 600 pixels	6GF3540-0CD10
	SIMATIC MV40 H	Resolution: 1280 x 1024 pixels	6GF3540-0GE10
	SIMATIC MV40 U	Resolution: 1920 x 1200 pixels	6GF3540-0LE10
	SIMATIC MV40 X	Resolution: 2592 x 2048 pixels	6GF3540-0HE10
	Built-in ring lights NEAR	red	6GF3540-8DA41
		white	6GF3540-8DA21
	Built-in ring lights FAR	infrared	6GF3540-8DA11
		red	6GF3540-8DA42
	E-focus lens	32 mm plus liquid lens, 1:1.6	6GF3540-8EA03-OLLO
	POWER-IO-DATA cable	MT12, 12-pole MV5XX-sided; not trailable; unconnected end; length: 10 m	6GF3500-8BA21
	Cable for communication modules	MT12, 12-pole MV5XX-sided; MT12, 8-pole	6GF3500-8BA12
	Adapter cable for SIMATIC MV40 external ring lights	For communication modules, see IO 10 Catalog – chapter 5	
	5D adapter	Connection of 6GF3400-0LTO-XXA1; length: 30 cm	6GF3500-8BD10
SIMATIC MV440 stationary optical reader ②			
	SIMATIC MV440 SR	Resolution: 640 x 480 pixels	6GF3440-1CD10
	SIMATIC MV440 HR	Resolution: 1024 x 768 pixels	6GF3440-1GE10
	SIMATIC MV440 LR	Resolution: 1600 x 1200 pixels	6GF3440-1LE10
	"Text-Genius" license ³⁾	Text recognition, OCR	6GF3400-0SL01
	"Text-Genius Plus" license ⁴⁾	Text recognition, OCR, learning of new fonts	6GF3400-1SL01
	"Veri-Genius" license ⁵⁾	Verification, incl. calibration template	6GF3400-0SL02
	"Pat-Genius" license ⁶⁾	Object recognition (classification, position detection, presence check, completeness check, symbol recognition)	6GF3400-0SL03
	Built-in ring lights	red	6GF3440-8DA11
		infrared	6GF3440-8DA41
		white	6GF3440-8DA21
	Power-IO-RS232 cable	MT16 pre-assembled at one end, other end unconnected, 10 m	6GF3440-8BA2
	Standard cable for communication modules	MT16 pre-assembled at one end, other end unconnected, 30 m	6GF3440-8BA4
	Adapter cable for external ring lights	For direct connection of SIMATIC MV440 to ASM456, RF160C170C180C182C, 2 m ... 50 m	6GT2891-4FX0X
	Adapter cable for external ring lights	For communication modules, see IO 10 Catalog – chapter 5	
	Adapter cable for external ring lights	MT12, 4-pole (socket), MT16 12-pole (socket)	6GF3440-8BD1
	Accessories – SIMATIC MV40 and SIMATIC MV440 stationary optical readers ③		
	Mounting plate	WxHxD (mm): 80x80x60; thickness: 4 mm	6GF3440-8CA
	Support system tri-plate	WxHxD (mm): 80x80x60; thickness: 4 mm	6GF9002-7AD
	Mini lenses ⁴⁾	6 mm, 1:1.4, D = 32 mm, L = 37.5 mm, MOD = 0.1 m	6GF9001-1BB01
		8.5 mm, 1:1.5 PENTAX, D = 42 mm, L = 47 mm, MOD = 0.2 m, not usable in connection with internal ring lights	6GF9001-1BE01
		12 mm, 1:1.4 PENTAX, D = 29.5 mm, L = 35.7 mm, MOD = 0.25 m	6GF9001-1BL01
		16 mm, 1:1.4 PENTAX, D = 29.5 mm, L = 37.2 mm, MOD = 0.25 m	6GF9001-1BF01
		25 mm, 1:1.4 PENTAX, D = 29.5 mm, L = 38.9 mm, MOD = 0.25 m	6GF9001-1BG01
		35 mm, 1:1.6 PENTAX, D = 29.5 mm, L = 41.4 mm, MOD = 0.4 m	6GF9001-1BH01
		50 mm, 1:2.8 PENTAX, D = 29.5 mm, L = 38 mm, MOD = 0.9 m	6GF9001-1BJ01
	Intermediate ring set	75 mm, 1:2.8 PENTAX, D = 34 mm, L = 43.6 mm, MOD = 0.7 m, additionally requires lens protection tube extension D65, 6GF3440-8AC13	6GF9001-1BK01
		Rings: 0.5/1/5/10/20/40 mm, D = 31 mm, to reduce the operating distance or for reading at close range	6GF9001-1BU
	Infrared filter ⁵⁾	Rings: 0.5/1/5 mm, D = 31 mm, to reduce the operating distance or for reading at close range	6GF9001-1BU01
	Blue filter ⁵⁾	To be independent of daylight, suitable for mini lenses	6GF9001-2AD
	Polarization filter ⁵⁾	Improves the reproduction of structures, suitable for mini lenses	6GF9001-2AE
	Daylight filter (UV-IR-Cut)	Reduction of metallic reflections	6GF9001-2AF
	Lens protection tube	Protects the camera sensor against light frequencies other than daylight (e.g. laser rays)	6GF3440-8EA1
		Made of metal, D65, for built-in ring lights, diameter inside: 57 mm, max. length of lens: 57 mm, for IP67 degree of protection	6GF3440-8AC11
	Glass front pane	5 panes, replacing the pane in the protective tube, suitable for 6GF340-8AC11	6GF3540-8AC14
		10 panes, replacing the pane in the protective tube, suitable for 6GF340-8AC11	6GF3540-8AC15
	Plastic front pane	10 panes, replacing the pane in the protective tube, suitable for 6GF340-8AC11	6GF3540-8AC15
		D65 lens protection tube extension	6GF3440-8AC13
	External ring lights	Housing: metal, lamp: infrared, front pane: clear, IP67, range of illumination 500 ... 23000 mm, 24 Volt	6GF3400-0LTO1-7BA1
		Housing: metal, lamp: red, front pane: clear, IP67, range of illumination 500 ... 3000 mm, 24 Volt	6GF3400-0LTO1-8DA1
	Mounting plate	For external ring lights, WxHxD (mm): 96 x 76 x 46, thickness: 4 mm	6GF3440-8CD01
Industrial Ethernet switches for Power over Ethernet (PoE)			
	SCALANCE X10BPG	6x 10/100 Mbps electrical RJ45 ports	6GK510B-0PA00-2AA3
		2x 10/100 Mbps electrical RJ45 PoE ports	
For further industrial Ethernet switches for PoE, please refer to the ICP Catalog under "Industrial Ethernet switches/Media converters"			
SIMATIC MV420 stationary optical reader ④			
	SIMATIC MV420 SR-B	Basic model MV420	6GF3420-0AA20
	SIMATIC MV420 SR-P	Pre-configured basic model incl. lens (6 mm, aperture 5.6) and red ring light, without multicode reading and ID-Genius algorithm	6GF3420-0AA40
	Built-in ring light	Performance model MV420	
		Pre-configured performance model incl. lens (6 mm, aperture 5.6) and red ring light, for very high read rates, with multicode reading and ID-Genius algorithm	6GF3420-0AAC0-1LT0
	Lens kit	red	6GF3420-0ACD0-0LK0
		Lens 6 mm, aperture 5.6, incl. protective tube	6GF3420-0ACD0-0LK0
	Power-IO-RS232 cable	Lens 7.6 mm, aperture 4, incl. protective tube	6GF3420-0ACD0-1LK0
		MT16 pre-assembled at one end, other end unconnected, 10 m	6GF3440-8BA2
	Adapter cable for communication modules	MT16 pre-assembled at one end, other end unconnected, 30 m	6GF3440-8BA4
		For direct connection of SIMATIC MV420 to ASM 456, RF160C170C180C182C, 2 m, can be extended with cable 6GT2891-4FX0X	6GF3420-0ACD0-2CB0
	Adapter cable for external ring lights	For communication modules, see IO 10 Catalog – chapter 5	
		MT12, 4-pole (socket), MT16 12-pole (socket)	6GF3440-8BD1
	Protective tube: replacement set	2x protective tubes, 3x O-rings, 8x mounting screws, offset screwdriver	6GF3420-0ACD0-2AA0
		Mounting plate MV420	6GF3420-0ACD0-1AA0
	Plug-in power supply (EU, US)	WxHxD (mm): 40x54x44, thickness: 2 mm	6GF3420-0ACD0-1PS0
		Demo and laboratory operation (for office environment only)	
Cables for SIMATIC MV40, SIMATIC MV440 and SIMATIC MV420 ⑤			
	IE connecting cable M12-180IE-FC RJ45 Plug 145	Basic model MV420	6XV1871-5TH20
		Pre-configured basic model incl. lens (6 mm, aperture 5.6) and red ring light, without multicode reading and ID-Genius algorithm	
		Performance model MV420	
	IE connecting cable M12-180IE-FC RJ45 Plug 145	Pre-configured IE FC TP trailing cable GP 2 x 2, 2 m ... 15 m	6XV1871-5TXXX
		For installation: 0.3 m ... 15 m	6XV1870-8AXXX
Cables can be assembled by the user by any cable lengths or connector versions			
	IE FC TP standard cable GP 2x2	4-wire, shielded TP installation cable for connection to IE, sold by meter (price/meter)	6XV1840-2AH10
		IE FC RJ45 Plug 180 RJ45 plug connector	6GK1901-1GA00
		IE FC M12 Plug 180	6GK1901-1BB10-2AA0
	IE FC M12 Plug 180	Rugged metal housing, FC connecting, straight cable outlet	6GK1901-1BB10-2AA0
		Rugged metal housing, axial cable outlet, D-coded	6GK1901-00B20-6AA0
For further cables, see ICP Catalog under "Cabling technology"			

¹⁾ Executable on MV440, firmware 3.0 or higher

²⁾ Executable on MV440, firmware 4.0 or higher

³⁾ Included in scope of delivery of MV440

⁴⁾ MOO = maximum object distance

⁵⁾ External lighting (e.g. IR for Infrared)

⁶⁾ Executable on MV440, firmware V6.0 or higher

⁷⁾ Executable on MV440, firmware V6.0 or higher

⁸⁾ You will find up-to-date ordering data on the internet at:

www.siemens.com/industry

Conditions of sales and delivery are available at:

www.siemens.com/automatedsalesmaterial-a0/catalog/en/terms_of_trade_en.pdf