

Technical data sheet Smart camera Part no.: 50113037

LSIS 462i M45-W1-01



Contents

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We reserve the right to make technical changes eng • 2020-12-16

Technical data

Basic data

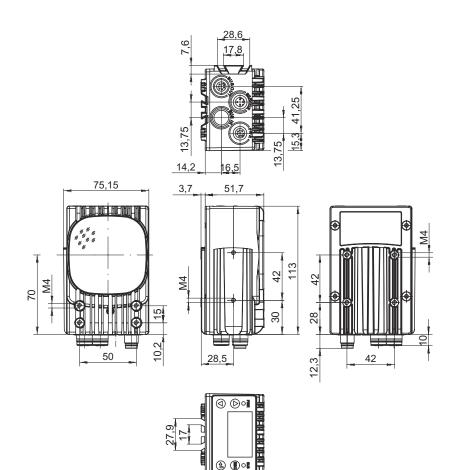
Basic data				
Series	LSIS 462i			
Chip	CMOS			
Frenchtung				
Functions				
Software functions	BLOB analysis (completeness monito- ring)			
	BLOB analysis (presence control)			
	Dimension monitoring			
	Focus adjustment			
	Measuring tool			
	Position determination			
	Reading of 1D codes			
	Reading of 2D codes			
Read data				
Code types, readable	2/5 Interleaved			
	Codabar			
	Code 128			
	Code 39			
	Data Matrix Code			
	FAN 128			
	EAN 8/13			
	Pharma Code			
	UPC			
Optical data				
Working range	75 10,000 mm			
Light source	LED, White			
Camera resolution, horizontal	752 px			
Camera resolution, vertical	480 px			
Focal length	16 mm			
Chip size	1/3 in			
Frame rate (images per second), max.	50 pieces per second			
Electronic shutter speed	0.054 20 ms			
Camera type	Monochrome			
Electrical data				
Performance data	18 30.V. DC			
Supply voltage U _B Power consumption, max.	18 30 V, DC 10 W			
Fower consumption, max.				
Inputs/outputs selectable				
Number of inputs/outputs selectable				
Voltage type, outputs	DC			
Switching voltage, outputs	Typ. U _B / 0 V			
Voltage type, inputs				
Switching voltage, inputs	Тур. U _В / 0 V			
Interface				
Туре	RS 232, Ethernet			
BC 020				
RS 232 Function	Process			
Tunction	1100033			
Ethernet				
Function	Process			
	Service			

Connection 1	
Function	Configuration interface
	Data interface
	Service interface
Type of connection	Connector
Designation on device	SERVICE
Thread size	M12
Connection 2 Function	Cianal IN
Function	Signal IN
	Signal OUT
Time of connection	Voltage supply Connector
Type of connection	PWR
Designation on device Thread size	M12
Inread size	M12
Connection 3	
Function	Data interface
	Signal IN
	Signal OUT
Type of connection	Connector
Designation on device	BUS OUT
Thread size	M12
Thread Size	
Mechanical data	
Dimension (W x H x L)	75 mm x 55 mm x 113 mm
lousing material	Metal
_ens cover material	Plastic
Net weight	500 g
Operation and display	
Type of configuration	Via web browser
Environmental data	
Ambient temperature, operation	0 +45 °C
Ambient temperature, storage	-20 +70 °C
	20 10 0
Certifications	
Degree of protection	IP 65
	IP 67
Certifications	c UL US
JS patents	US 8,288,706 B
Classification	
Customs tariff number	90318020
eCl@ss 5.1.4	27310101
eCl@ss 8.0	27310101
eCl@ss 9.0	27310201
eCl@ss 10.0	27310101
	27310101
CI@ss 11.0	
-	EC002550
ETIM 5.0	EC002550 EC002550
eCl@ss 11.0 ETIM 5.0 ETIM 6.0 ETIM 7.0	

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Dimensioned drawings

All dimensions in millimeters

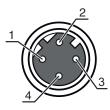


Electrical connection

Connection 1	SERVICE
Function	Configuration interface
	Data interface
	Service interface
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin Pin assignment

2 RD+ 3 TD- 4 RD-	1	TD+
	2	RD+
4 RD-	3	TD-
	4	RD-



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Electrical connection

Connection 2

Function	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

PWR

Pin Pin assignment

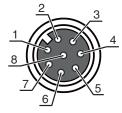
1	VIN		
2	IO1		
3	GND		
4	IO2		
5	IO3		
6	IO4		
7	n.c.		
8	FE		

Connection 3

Function	Data interface
	Signal IN
	Signal OUT
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

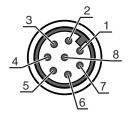
Pin Pin assignment 1 IO5

2	IO6
3	GND
4	107
5	IO8
6	RS 232-RX
7	RS 232-TX
8	FE



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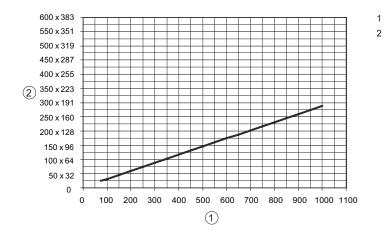


BUS OUT

Diagrams

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Relationship between working distance and field of view size



Operation and display

LE	D	Display	Meaning
1	PWR	Off	No supply voltage
		Green, flashing	Device ok, initialization phase
		Green, continuous light	Device OK
		Orange, continuous light	Service operation
		Red, flashing	Device OK, warning set
		Red, continuous light	Device error
2	BUS	Off	No supply voltage
		Green, flashing	BUS initialization
		Green, continuous light	BUS OK
		Red, flashing	Bus error

Distance [mm]

Field of view: width x height [mm]

Part number code

Part designation: LSIS AABB CCD-EF-GG

LSIS	Operating principle Smart camera
AA	Functions 41: BLOB analysis 42: Code reading 46: BLOB analysis, code reading, measuring tool 47: Compartment fine positioning
BB	Interface 2: RS 232 / Ethernet + digital I/Os
сс	Camera chip / resolution range M4: Monochrome / 752 x 480px
D	Lens 3: 8 mm 5: 16 mm 9: depending on the used interchangeable lens
E	Illumination I: infrared light M: RGBW W: white X: external illumination

Part number code



F	Illumination type 1: diffuse front illumination 9: none
GG	Version 01: plastic n/a: glass H: with heating
	Note
1	∜ A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes

Observe intended use!
 This product is not a safety sensor and is not intended as personnel protection. The product may only be put into operation by competent persons. Only use the product in accordance with its intended use.

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
Ŭ	50135128	KD S-M12-8A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
Ŵ	50135074	KS ET-M12-4A-P7- 050	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
Ú	50135139	KS S-M12-8A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Male, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Accessories

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Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50135081	KSS ET-M12-4A- RJ45-A-P7-050	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
S	50027375	BT 56	Mounting device	Functions: Static applications Design of mounting device: Mounting system Fastening, at system: For 16 mm rod, For 18 mm rod, For 20 mm rod Mounting bracket, at device: Clampable Material: Metal Tightening torque of the clamping jaws: 8 N⋅m

Services

	Part no.	Designation	Article	Description
y; U	S981014	CS30-S-110	Start-up support	Details: Performed at location of customer's choosing, duration: max. 10 hours. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: No mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.
	S981019	CS30-T-110	Product training	Details: Location and content to be agreed upon, duration: max. 10 hours. Conditions: Price not including travel costs and, if applicable, accommodation expenses. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.

	Note
6	∜ A I

A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.