

Technical data sheet Smart camera

Part no.: 50116989

LSIS 462i M45-I1-01



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Technical data



Basic data

Series	LSIS 462i
Chip	CMOS

Functions	
Software functions	BLOB analysis (completeness monitoring)
	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
	EAN 128
	EAN 8/13
	Pharma Code
	UPC

Optical data

Working range	75 10,000 mm
Light source	LED, Infrared
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

Supply voltage U _B	18 30 V, DC
Power consumption, max.	10 W
Inputs/outputs selectable	
Number of inputs/outputs selectable	8 Piece(s)
Voltage type, outputs	DC
Switching voltage, outputs	Typ. U _B / 0 V
Voltage type, inputs	DC
Switching voltage, inputs	Typ. U _B / 0 V

Interface

"	iteriace	
Ty	уре	RS 232, Ethernet
	RS 232	
	Function	Process
	Ethernet	
	Function	Process
		Service

Connectio	n 1

	Function	Configuration interface
		Data interface
		Service interface
	Type of connection	Connector
	Designation on device	SERVICE
	Thread size	M12

Connection 2

Function	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Connector
Designation on device	PWR
Throad size	M12

Connection 3	
Function	Data interface
	Signal IN
	Signal OUT
Type of connection	Connector
Designation on device	BUS OUT
Thread size	M12

Mechanical data

Dimension (W x H x L)	75 mm x 55 mm x 113 mm
Housing material	Metal
Lens cover material	Plastic
Net weight	500 g

Operation and display

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Environmental data

Ambient temperature, operation	0 +45 °C
Ambient temperature, storage	-20 +70 °C

Certifications

Degree of protection	IP 65
	IP 67
Certifications	c UL US
US patents	US 8,288,706 B

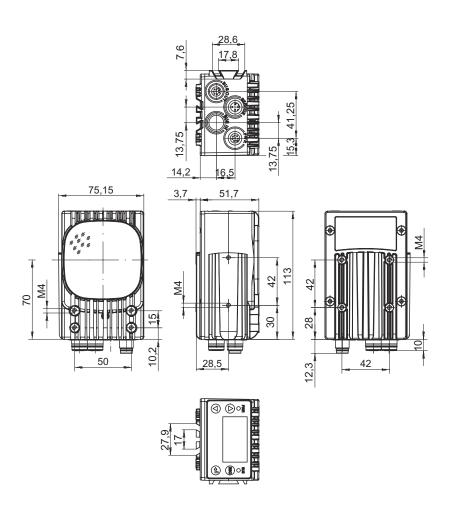
Classification

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	
eCl@ss 11.0	27310101	
ETIM 5.0	EC002550	
ETIM 6.0	EC002550	
ETIM 7.0	EC002550	

Dimensioned drawings

Leuze

All dimensions in millimeters



Electrical connection

Connection 1

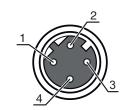
Encoding

Function	Configuration interface
	Data interface
	Service interface
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin

SERVICE

D-coded

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

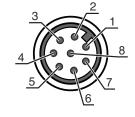


Electrical connection



Connection 2	PWR	
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	

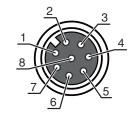
Pin	Pin assignment
1	VIN
2	101
3	GND
4	102
5	103
6	104
7	n.c.
8	FE



Connection 3	BUS OUT	
Function	Data interface	
	Signal IN	
	Signal OUT	
Type of connection	Connector	
Thread size	M12	
Туре	Female	
Material	Metal	
No. of pins	8 -pin	

A-coded

Pin	Pin assignment					
1	IO5					
2	106					
3	GND					
4	107					
5	108					
6	RS 232-RX					
7	RS 232-TX					
8	FE					

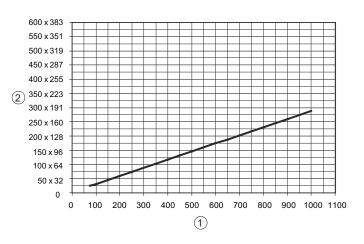


Encoding

Diagrams



Relationship between working distance and field of view size



- 1 Distance [mm]
- 2 Field of view: width x height [mm]

Operation and display

LED	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	

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				
ВВ	Interface 2: RS 232 / Ethernet + digital I/Os				
CC	Camera chip / resolution range M4: Monochrome / 752 x 480px				
D	Lens 3: 8 mm 5: 16 mm 9: depending on the used interchangeable lens				
Е	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



🖔 A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes



Observe intended use!



- 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
	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
¥	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
	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



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
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
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.

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