



the sensor people





Part no.: 50111331 LES 36HI/PB Line profile sensor









Figure can vary

Contents

- Technical data
- Electrical connection
- Operation and display
- Notes
- Accessories



Technical data

Basic data				
Series Series	36			
Contains	LxSsoft configuration software			
Application	3D object detection Object measurement			
	*			
Special design				
Special design	Synchronization input			
Optical data				
Light source	Laser , Red			
Laser class	2M			
Measurement data				
X-axis measurement range	50 140 mm			
Measurement range z-axis	200 600 mm			
Resolution of x-axis	0.2 0.6 mm			
Resolution of z-axis	0.1 0.9 mm			
Repeatability of Z-axis, relative to measurement distance	≤ 0.25 %			
Repeatability of Z-axis, relative to measurement distance, note	Reflectivity 90 %, identical object, identical environment conditions, measurement object \leq 50x50 mm ²			
Measurement time	10ms			
Linearity of Z-axis, relative to measurement distance	± 0,5% %			
Minimum object size, x-axis	0.6 2 mm			
Minimum object size, z-axis	0.4 3 mm			
Black/white behavior	0.5 %			
Electrical data				
Performance data	42 224 22			
Supply voltage U _B	18 30 V , DC			
Inputs Number of activation inputs	1 Piece(s)			
Outputs				
Number of digital switching outputs	2 Piece(s)			
Switching outputs	(-)			
Switching output 1				
Switching element	Transistor ,			
Switching output 2				
Switching element	Transistor ,			
Omtorning dictricit	manoistor ;			
Interface				
Туре	PROFIBUS DP , Ethernet			
Connection				
Number of connections	3 Piece(s)			



Connection 1	
Type of connection	Connector
Function	Signal IN Signal OUT Voltage supply
Thread size	M12
Туре	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded
Connection 2	
Type of connection	Connector
Function	Configuration interface Data interface
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded
Connection 4	
Type of connection	Connector
Function	PROFIBUS IN PROFIBUS OUT
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	B-coded
echanical data	
mension (W x H x L)	56 mm x 160 mm x 74 mm
ousing material	Metal Plastic , Aluminum
ns cover material	Glass
et weight	620 g
nvironmental data	
nbient temperature, operation	-30 50 °C
ertifications	
egree of protection	IP 67
otection class	III
ertifications	c UL US
andards applied	IEC/EN 60947-5-2
Spatents	US 8,928,894 B
assification	
ustoms tariff number	90318020
Cl@ss 8.0	27280190
Cl@ss 9.0	27280190



ETIM 6.0 EC001825

Electrical connection

Connection 1	PWR	
Type of connection	Connector	
Function	Signal IN Signal OUT Voltage supply	
Thread size	M12	
Туре	Male	
Material	Metal	
No. of pins	8 -pin	
Encoding	A-coded A-coded	

Pin	Pin assignment				
1	V+				
2	IN ACTIVATE				
3	GND				
4	OUT 1 / Operational readiness				
5	Trigger IN				
6	OUT 2				
7	n.c.				
8	n.c.				

Connection 2	ЕТН	
Type of connection	Connector	
Function	Configuration interface Data interface	
Thread size	M12	
Туре	Female	
Material	Metal	
No. of pins	4 -pin	
Encoding	D-coded	

Pin	Pin assignment
1	Tx+
2	Rx+
3	Tx-
4	Rx-

Connection 4		
Type of connection	Connector	
	PROFIBUS IN PROFIBUS OUT	
Thread size	M12	
Туре	Female	

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Connection 4	
Material	Metal
No. of pins	5 -pin
Encoding	B-coded

Pin	Pin assignment
1	VP
2	A (N)
3	GND
4	B (P)
5	FE

Operation and display

LEDs

LED	Display	Meaning
1	Green, continuous light	Operational readiness
	Off	No supply voltage
2	Yellow, continuous light	Ethernet connection is established
	Yellow, flashing	Data transmission active
	Off	No data transmission

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.

NOTE

• For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).



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

Connection technology - Interconnection cables

Part no.	Designation	Article	Description
50125541	K-DS M12A-8P-0,75m- LxS36-CP	Configuration cable	Parameter memory: Yes Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 8 -pin Shielded: Yes Cable length: 750 mm Sheathing material: PUR
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

Connection technology - Adapters

	Part no.	Designation	Article	Description
(A)	50109834	KDS BUS OUT M12-T-5P	Adapter	Suitable for: MultiNet Plus, PROFIBUS DP Number of connections: 3 Piece(s) Connection 1: Connector, M12, Axial, Male, B-coded, 5 -pin Connection 2: Connector, M12, Axial, Female, B-coded, 5 -pin Connection 3: Connector, M12, Axial, Male, B-coded, 5 -pin

Mounting technology - Rod mounts

Part no.	Designation	Article	Description
50121435	BT 56 - 1	Mounting device	Functions: Static applications Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, For 14 mm rod, For 16 mm rod Mounting bracket, at device: Clampable Material: Metal Tightening torque of the clamping jaws: 8 N·m

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Services

Part no.	Designation	Article	Description
S981001	CS10-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.
S981005	CS10-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

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