



the sensor people





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









Figure can vary

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

Series 36 Contains LxSsoft configuration software Application Object measurement 3D object detection Special design Special	Basic data				
Contains LxSsoft configuration software Application Object measurement 30 object detection 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 Measurement range z-axis 200 600 mm Measurement range z-axis 201 60 mm Resolution of x-axis, relative to measurement distance 5 0.25 % Repeatability of Z-axis, relative to measurement distance note Reflectivity 90 %, identical object, identical environment conditions, measurement time 10ms Measurement time 10ms Minimum object size, z-axis 0.6 2 mm Minimum object size, z-axis 0.7 3 mm Minimum object size, z-axis 0.7 3 mm Blackt/white behavior 0.5 % Electrical data Porformance data Supply voltage Us 18 30 V, DC Inputs Number of activation inputs 1 Piece(s) Outputs Switching outputs Switching outputs Switching outputs Switching output 1 Switching output 2 Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethemet Connection		36			
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Light source Laser, Red Laser class 2M Measurement stage Measurement range 50 140 mm Measurement range z-axis 200 800 mm Resolution of x-axis 0.1 0.9 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 time Linearity of Z-axis, relative to measurement distance ± 0.5% % Minimum object size, x-axis 0.6 2 mm Minimum object size, x-axis 0.6 2 mm Minimum object size, x-axis 0.4 3 mm Black/white behavior 0.5 % Electrical data Performance data Supply voltage UB 18 30 V, DC Inputs Number of activation inputs 1 Piece(s) Outputs Switching output 1 Switching output 1 Transistor, Switching output 2 Switching element Transistor,	Special design	Synchronization input			
Light source Laser, Red Laser class 2M Measurement stage Measurement range 50 140 mm Measurement range z-axis 200 800 mm Resolution of x-axis 0.1 0.9 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 time Linearity of Z-axis, relative to measurement distance ± 0.5% % Minimum object size, x-axis 0.6 2 mm Minimum object size, x-axis 0.6 2 mm Minimum object size, x-axis 0.4 3 mm Black/white behavior 0.5 % Electrical data Performance data Supply voltage UB 18 30 V, DC Inputs Number of activation inputs 1 Piece(s) Outputs Switching output 1 Switching output 1 Transistor, Switching output 2 Switching element Transistor,					
Laser class 2M Measurement data	Optical data				
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X-axis measurement range 50 140 mm Measurement range z-axis 200 600 mm Resolution of x-axis 0.2 0.6 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 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 Supply voltage UB 18 30 V, DC Inputs Number of activation inputs 1 Piece(s) Outputs Number of digital switching outputs 2 Piece(s) Switching output 1 Switching output 2 Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet	Laser class	2M			
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Repeatability of Z-axis, relative to measurement distance, note Reflectivity 90 %, identical object, identical environment conditions, 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 Electrical data Performance data Supply voltage UB 18 30 V, DC Inputs Number of activation inputs 1 Piece(s) Outputs Number of digital switching outputs 2 Piece(s) Switching output 1 Switching output 1 Switching output 2 Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection	Resolution of z-axis	0.1 0.9 mm			
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Minimum object size, x-axis Minimum object size, z-axis Minimum object size, x-axis Minimum object size, z-axis Minimum object size, x-axis Minimum object size, shift Minimum object size, shift	Measurement time	10ms			
Minimum object size, z-axis Black/white behavior 0.5 % Electrical data Performance data Supply voltage UB Inputs Number of activation inputs Number of digital switching outputs Switching outputs Switching output 1 Switching output 2 Switching element Interface Type PROFIBUS DP, Ethernet Connection	Linearity of Z-axis, relative to measurement distance	± 0,5% %			
Black/white behavior 0.5 % Electrical data Performance data Supply voltage UB 18 30 V, DC Inputs Number of activation inputs 1 Piece(s) Outputs Number of digital switching outputs 2 Piece(s) Switching output 1 Switching output 2 Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection	Minimum object size, x-axis	0.6 2 mm			
Electrical data Performance data Supply voltage UB 18 30 V, DC Inputs Number of activation inputs 1 Piece(s) Outputs Number of digital switching outputs 2 Piece(s) Switching output 1 Switching output 1 Switching output 2 Switching element Transistor, Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection	Minimum object size, z-axis	0.4 3 mm			
Performance data Supply voltage UB	Black/white behavior	0.5 %			
Performance data Supply voltage UB					
Supply voltage UB 18 30 V, DC Inputs Number of activation inputs 1 Piece(s) Outputs Number of digital switching outputs 2 Piece(s) Switching output 1 Switching output 1 Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection	Electrical data				
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Number of activation inputs Outputs Number of digital switching outputs Switching outputs Switching output 1 Switching element Transistor, Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet	Supply voltage U _B	18 30 V, DC			
Outputs Number of digital switching outputs 2 Piece(s) Switching output 1 Switching element Switching output 2 Transistor, Switching element Transistor, Interface Type PROFIBUS DP, Ethernet					
Number of digital switching outputs Switching output 1 Switching element Transistor, Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection	·	1 Piece(s)			
Switching output 1 Switching element Transistor, Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection		0.5:			
Switching output 1 Switching element Transistor, Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection		2 Piece(s)			
Switching element Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection					
Switching output 2 Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection					
Switching element Transistor, Interface Type PROFIBUS DP, Ethernet Connection		Transistor,			
Interface Type PROFIBUS DP, Ethernet Connection					
Type PROFIBUS DP, Ethernet Connection	Switching element	Transistor,			
Type PROFIBUS DP, Ethernet Connection					
Connection		DDOFINIA DD. FIL			
	туре	PROFIBUS DP, Ethernet			
Number of connections 3 Piece(s)		2 Diagram			
	Number of connections	3 Mede(S)			



Connection 1	
Type of connection	Connector
Function	Voltage supply Signal IN Signal OUT
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 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
S patents	US 8,928,894 B
assification	
ustoms tariff number	90318020
Cl@ss 8.0	27280190
Cl@ss 9.0	27280190



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Electrical connection

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

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

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



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
50135243	KD PB-M12-4A- P3-050	Connection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Female, B-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
50135244	KD PB-M12-4A- P3-100	Connection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Female, B-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR
50135127	KD S-M12-8A- P1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR
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
50135129	KD S-M12-8A- P1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR
50135247	KS PB-M12-4A- P3-020	Connection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Male, B-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR
50135248	KS PB-M12-4A- P3-050	Connection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Male, B-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
50135249	KS PB-M12-4A- P3-100	Connection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Male, B-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 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
50135080	KSS ET-M12-4A- RJ45-A-P7-020	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 2,000 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
50135082	KSS ET-M12-4A- RJ45-A-P7-100	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR

Connection technology - Terminating resistors

Part no.	Designation	Article	Description
50038539	TS 02-4-SA	Terminator plug	Suitable for: MultiNet Plus, PROFIBUS DP Connection 1: Connector, M12, Axial, Male, B-coded, 4 -pin Function: Bus termination

Connection technology - Adapters

	Part no.	Designation	Article	Description
6	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
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

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	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
1	50126007	BT 56 - V	Mounting device	Functions: Dynamic applications Design of mounting device: Mounting system Fastening, at system: For 16 mm rod, For 14 mm rod, For 12 mm rod Mounting bracket, at device: Clampable Material: Metal Tightening torque of the clamping jaws: 12 N·m

Mounting technology - Other

Part no.	Designation	Article	Description
50111224	BT 59	Mounting bracket	Fastening, at system: Groove mounting Mounting bracket, at device: Clampable Material: Metal
50124941	BTU 0300M-W	Mounting device	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, Groove mounting Material: Metal

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.