

## Technical data sheet

### Line profile sensor

Part no.: 50143924

LRS 36/PB.10

#### Contents

- Technical data
- Electrical connection
- Accessories



Figure can vary



## Technical data

### Basic data

Series	36
Contains	LxSsoft configuration software
Application	3D object detection

### Special version

Special version	Synchronization input
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### Optical data

Light source	Laser, Red
Laser class	2M

### Measurement data

X-axis detection range	150 ... 600 mm
Z-axis detection range	200 ... 800 mm
Minimum object size, x-axis	2 ... 3 mm
Minimum object size, z-axis	2 ... 6 mm

### Electrical data

#### Performance data

Supply voltage $U_B$	18 ... 30 V, DC
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#### Inputs

Number of activation inputs	1 Piece(s)
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#### Outputs

Number of digital switching outputs	2 Piece(s)
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#### Switching outputs

##### Switching output 1

Switching element	Transistor, Push-pull
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##### Switching output 2

Switching element	Transistor, Push-pull
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### Timing

Response time	10 ms
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### Interface

Type	PROFIBUS DP, Ethernet
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### Connection

Number of connections	3 Piece(s)
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#### Connection 1

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

#### Connection 2

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

#### Connection 4

Function	PROFIBUS IN PROFIBUS OUT
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	B-coded

### Mechanical data

Dimension (W x H x L)	56 mm x 160 mm x 74 mm
Housing material	Metal Plastic
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	620 g

### Environmental data

Ambient temperature, operation	-30 ... 50 °C
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### Certifications

Degree of protection	IP 67
Protection class	III
Certifications	c UL US
Standards applied	IEC 60947-5-2

### Classification

Customs tariff number	90318020
eCl@ss 5.1.4	27280190
eCl@ss 8.0	27280190
eCl@ss 9.0	27280190
eCl@ss 10.0	27280190
eCl@ss 11.0	27280190
ETIM 5.0	EC001825
ETIM 6.0	EC001825
ETIM 7.0	EC001825

## Electrical connection

### Connection 1

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

#### Pin Pin assignment

1	V+
2	IN 1
3	GND
4	OUT 1
5	IN 2
6	OUT 2
7	n.c.
8	n.c.

### Connection 2

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

#### Pin Pin assignment

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

### Connection 4


Function	PROFIBUS IN
	PROFIBUS OUT
Type of connection	Connector
Thread size	M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	B-coded

#### Pin Pin assignment


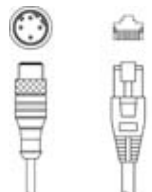
1	VP
2	A (N)
3	GND
4	B (P)
5	FE

## 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
	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

## Accessories

## Services

	Part no.	Designation	Article	Description
	S981001	CS10-S-110	Start-up support	<p>Details: Performed at location of customer's choosing, duration: max. 10 hours.</p> <p>Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses.</p> <p>Restrictions: No mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.</p>
	S981005	CS10-T-110	Product training	<p>Details: Location and content to be agreed upon, duration: max. 10 hours.</p> <p>Conditions: Price not including travel costs and, if applicable, accommodation expenses.</p> <p>Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.</p>

### Note



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