



Figure can vary

**Part no.: 50137351**  
**LPS 36HI/EN.10**  
**Line profile sensor**



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Part no.: 50137351 – LPS 36HI/EN.10 – Line profile sensor

## Technical data

<b>Basic data</b>	
Series	36
Contains	LxSsoft configuration software
Application	Contour measurement Object measurement
<b>Special design</b>	
<b>Optical data</b>	
Light source	Laser , Red
Laser class	2M
<b>Measurement data</b>	
X-axis measurement range	46 ... 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 ≤ 50x50 mm <sup>2</sup>
Measurement time	10ms
Linearity of Z-axis, relative to measurement distance	± 0,5% %
Black/white behavior	0.5 % , 6 ... 90% diffuse reflectance
<b>Electrical data</b>	
<b>Performance data</b>	
Supply voltage U <sub>B</sub>	18 ... 30 V , DC
<b>Inputs</b>	
Number of activation inputs	1 Piece(s)
<b>Outputs</b>	
Number of digital switching outputs	2 Piece(s)
<b>Switching outputs</b>	
<b>Switching output 1</b>	
Switching element	Transistor , Push-pull
<b>Switching output 2</b>	
Switching element	Transistor , Push-pull
<b>Interface</b>	
Type	Ethernet
<b>Connection</b>	
Number of connections	3 Piece(s)

**Connection 1**

Type of connection	Connector
Function	Signal IN Signal OUT Voltage supply
Thread size	M12
Type	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
Type	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

**Connection 3**

Type of connection	Connector
Function	Encoder
Thread size	M12
Type	Female
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

**Mechanical data**

Dimension (W x H x L)	56 mm x 160 mm x 74 mm
Housing material	Metal Plastic , 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 , VDE
Certifications	c UL US
Standards applied	IEC 60947-5-2

**Classification**

Customs tariff number	90318020
eCl@ss 8.0	27280190
eCl@ss 9.0	27280190
ETIM 5.0	EC001825
ETIM 6.0	EC001825

## Electrical connection

Connection 1	PWR
Type of connection	Connector
Function	Signal IN Signal OUT Voltage supply
Thread size	M12
Type	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	ETH
Type of connection	Connector
Function	Configuration interface Data interface
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 3	
Type of connection	Connector
Function	Encoder
Thread size	M12
Type	Female
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Pin	Pin assignment
1	V+
2	
3	
4	
5	
6	
7	
8	

## 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


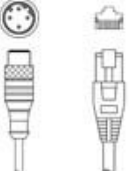
### Connection technology - Connection cables

	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


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	Part no.	Designation	Article	Description
	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



### 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

### 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

### 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.