SMART SENSOR BUSINESS

Leuze electronic

the sensor people





Part no.: 50125669 BPS 300i SM 100 D Bar code positioning system



Figure can vary

Contents

- Technical data
- Dimensioned drawings
- · Diagrams
- · Part number code
- Notes
- Accessories

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Part no.: 50125669 – BPS 300i SM 100 D – Bar code positioning system

Technical data

Basic data	
Series	BPS 300i
Order guide	Bar code tape must be ordered separately Operation only possible in combination with MS 3xx, MK 3xx or KE 30x connection unit
Optical data	
Depth of field	50 170 mm
Light source	Laser, Red
Laser class	2 , IEC/EN 60825-1:2007
Light beam exit	Lateral
Measurement data	
Measurement range	0 10,000,000 mm
Resolution	0.01 10 mm
Reproducibility (1 sigma)	0.05 mm
Measurement value output	1 30 ms
Max. traverse rate	10 m/s
Electrical data	
Protective circuit	Polarity reversal protection Short circuit protected
Performance data	
Supply voltage UB	18 30 V , DC
Power consumption, max.	3.7 W
Inputs/outputs selectable	
Output current, max.	60 mA
Number of inputs/outputs selectable	2 Piece(s)
Input current, max.	8 mA
Interface	
Туре	RS 232 , RS 422
RS 232	
Function	Process
Transmission speed	4,800 115,200 Bd
Data format	Adjustable
Start bit	1
Data bit	7,8
Stop bit	1, 2 stop bits
Parity	Adjustable
Data encoding	Binary

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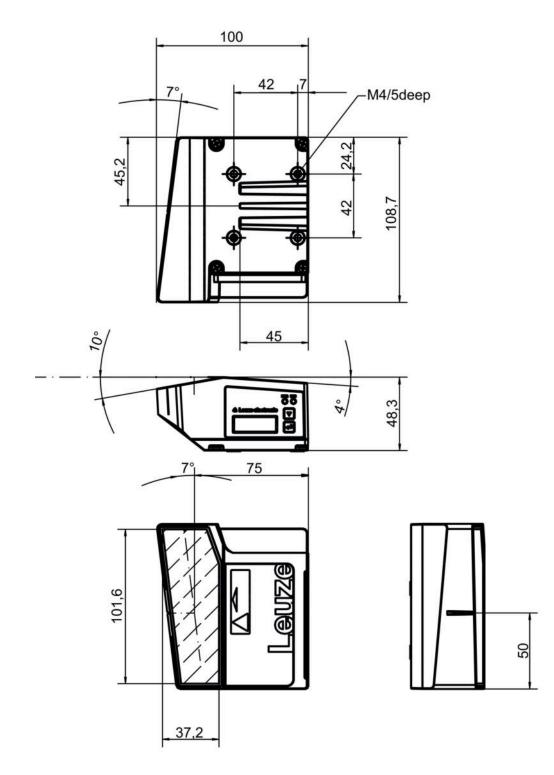
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Dimensioned drawings

All dimensions in millimeters

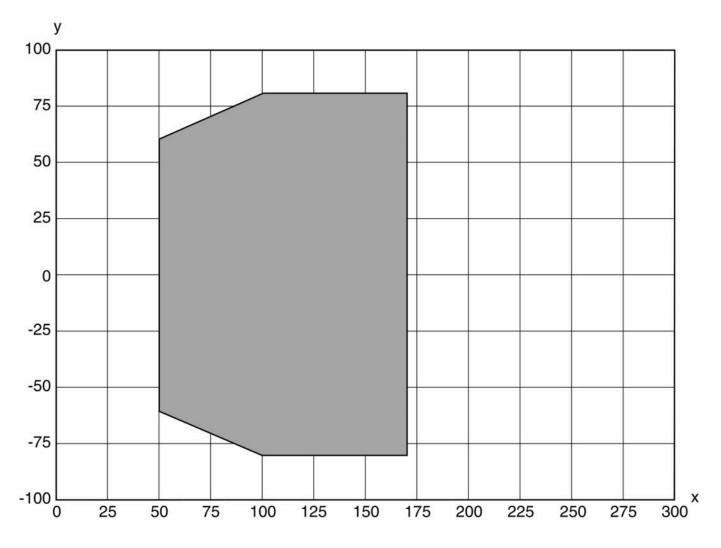


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Diagrams

Reading field curve



Reading field distance [mm] Reading field width [mm] Х

y

Part number code

Part designation: BPS 3XXi SM 100 Y Z

BPS	Operating principle: BPS: bar code positioning system
3XXi	Series/interface (integrated fieldbus technology): 300i: RS 232 / RS 422 (stand-alone) 301i: RS 485 304i: PROFIBUS DP 307i: SSI 348i: PROFINET RT
SM	Scanning principle / optics: S: line scanner (single line) M: Medium Density (medium distance)
100	Beam exit: 100: lateral
ΥΖ	Special equipment: n/a: no special equipment D: with display H: with heating D H: optionally with display and heating

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Part no.: 50125669 – BPS 300i SM 100 D – Bar code positioning system

Note

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

Notes

WARNING! LASER RADIATION - CLASS 2 LASER PRODUCT

Do not stare into beam!

The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of **laser class 2** as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to "Laser Notice No. 50" from June 24, 2007.

- Never look directly into the laser beam or in the direction of reflected laser beams! If you look into the beam path over a longer time period, there is a risk of injury to the retina.
- Do not point the laser beam of the device at persons!
- Interrupt the laser beam using a non-transparent, non-reflective object if the laser beam is accidentally directed towards a person.
- · When mounting and aligning the device, avoid reflections of the laser beam off reflective surfaces!
- CAUTION! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- · Observe the applicable statutory and local laser protection regulations.
- The device must not be tampered with and must not be changed in any way. There are no user-serviceable parts inside the device. Repairs must only be performed by Leuze electronic GmbH + Co. KG.

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Part no.	Designation	Article	Description
50104170	KB SSI/ IBS-10000-BA	Connection cable	Suitable for interface: SSI, Interbus-S Connection 1: Connector, M12, Axial, Female, B-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR
50104172	KB SSI/ IBS-2000-BA	Connection cable	Suitable for interface: SSI, Interbus-S Connection 1: Connector, M12, Axial, Female, B-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR
50132077	KD U-M12-5A- V1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
50132079	KD U-M12-5A- V1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Accessories

Connection technology - Connection cables

Part no.: 50125669 – BPS 300i SM 100 D – Bar code positioning system

Connection technology - Interconnection cables

Part no.	Designation	Article	Description
50114571 *	KB 301-3000	Interconnection cable	Suitable for interface: RS 232, RS 422, RS 485 Connection 1: Socket connector Connection 2: JST ZHR, 10 -pin, 6 -pin Shielded: Yes Cable length: 3,000 mm Sheathing material: PVC

* Necessary accessories, please order separately

Connection technology - Connectors

Part no.	Designation	Article	Description
50020501	KD 095-5A	Connector	Connection: Connector with screw terminals, M12, Axial, Female, A-coded, 5 -pin

Connection technology - Connection boxes

Part no.	Designation	Article	Description
50116463 *	MK 300	Connection unit	Suitable for: BCL 300i, BPS 300i Suitable for interface: RS 232 Number of connections: 3 Piece(s) Connection: Terminal
50116468 *	MS 300	Connection unit	Suitable for: BCL 300i, BPS 300i Suitable for interface: RS 232 Number of connections: 3 Piece(s) Connection: Connector, M12

* Necessary accessories, please order separately

Mounting technology - Rod mounts

Part no.	Designation	Article	Description
50121434	BT 300 - 1	Mounting device	Contains: 4x M4 x 10 screw, 4x position washers, 4x lock washers 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: Screw type Type of mounting device: Turning, 360°, Adjustable Material: Metal
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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Mounting technology - Other

Part no.	Designation	Article	Description
50124941	BTU 0300M-W		Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, Groove mounting, Suited for M4 screws Material: Metal

Bar code tape

Part no.	Designation	Article	Description
50040041	BCB 010	Bar code tape	Dimensions: 47 mm x 10,000 mm Grid dimension: 40 mm
50037489	BCB 020	Bar code tape	Dimensions: 47 mm x 20,000 mm Grid dimension: 40 mm

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.