



Part no.: 50125678
BPS 307i SM 100 D
Bar code positioning system



Figure can vary

Contents

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- Dimensioned drawings
- Diagrams
- Accessories



Technical data

Basic data	
Series	BPS 300i
Order guide	Bar code tape must be ordered separately

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
Geometric resolution	0.01 ... 10 mm
Reproducibility (1 sigma)	0.15 mm
Measurement value output	0.05 ... 2 ms
Max. traverse rate	10 m/s

Electrical data	
Protective circuit	Short circuit protected Polarity reversal protection

Performance data	
Supply voltage	18 ... 30 V, DC
Power consumption, max.	3.7 W

Inputs/outputs selectable	
Current, max.	60 mA
Number of inputs/outputs selectable	2 Piece(s)
Input current, max.	8 mA

Interface	
Type	SSI

SSI	
Function	Process
Clock frequency	50 ... 800 kHz
Data bit	Adjustable

Service interface	
Type	USB

USB	
Function	Service

Mechanical data	
Dimension (W x H x L)	100 mm x 108.7 mm x 48.3 mm
Housing material	Metal, Diecast aluminum
Lens cover material	Glass
Net weight	580 g
Housing color	Red Silver

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Type of fastening	Dovetail grooves Fastening on back Via optional mounting device
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Operation and display

Type of display	LED
Type of configuration	Via web browser

Environmental data

Ambient temperature, operation	-5 ... 50 °C
Ambient temperature, storage	-35 ... 70 °C
Relative humidity (non-condensing)	90 %

Certifications

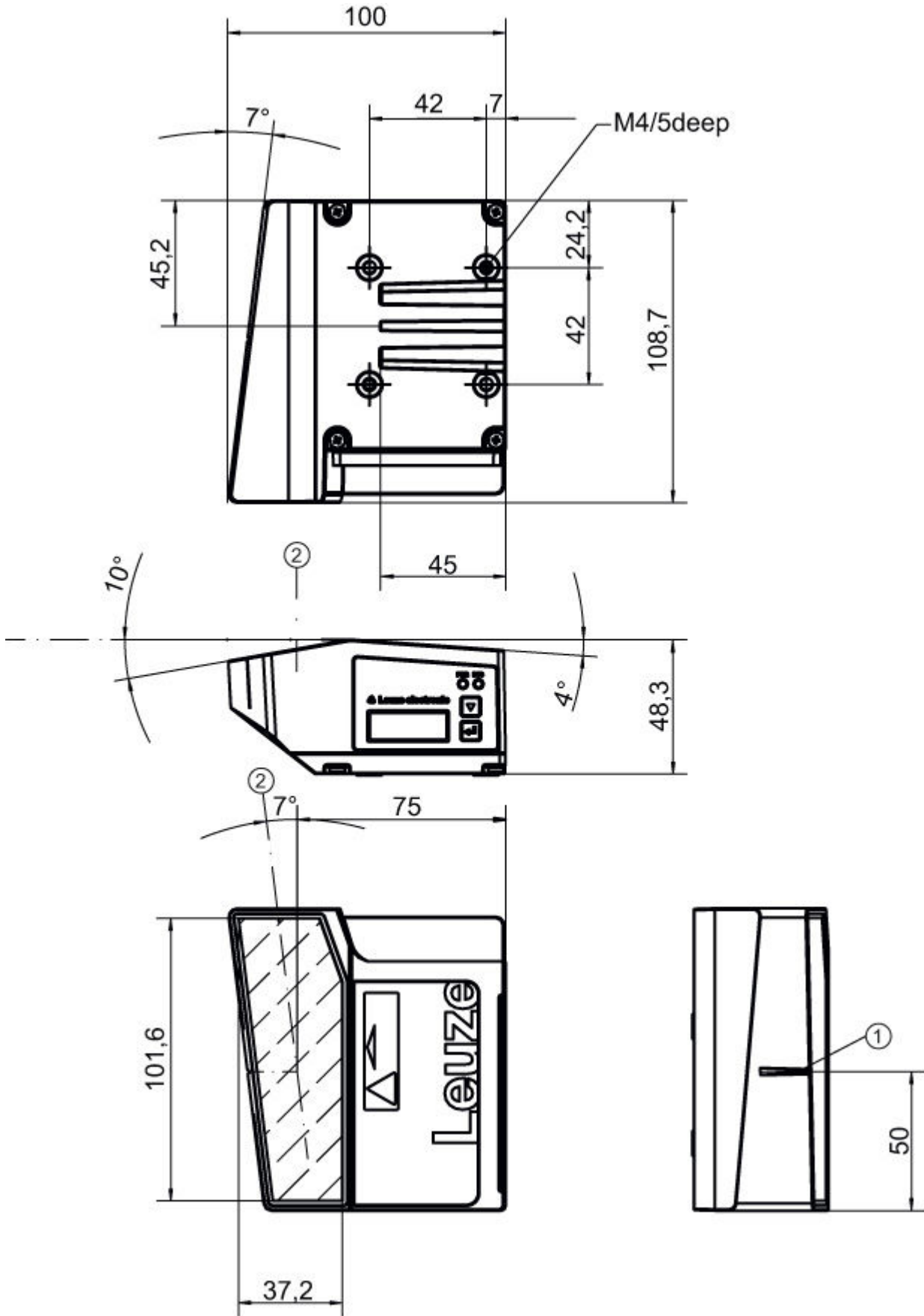
Degree of protection	IP 65, EN 60529 with various connectors or screwed-on caps
Protection class	III
Certifications	c UL US

Classification

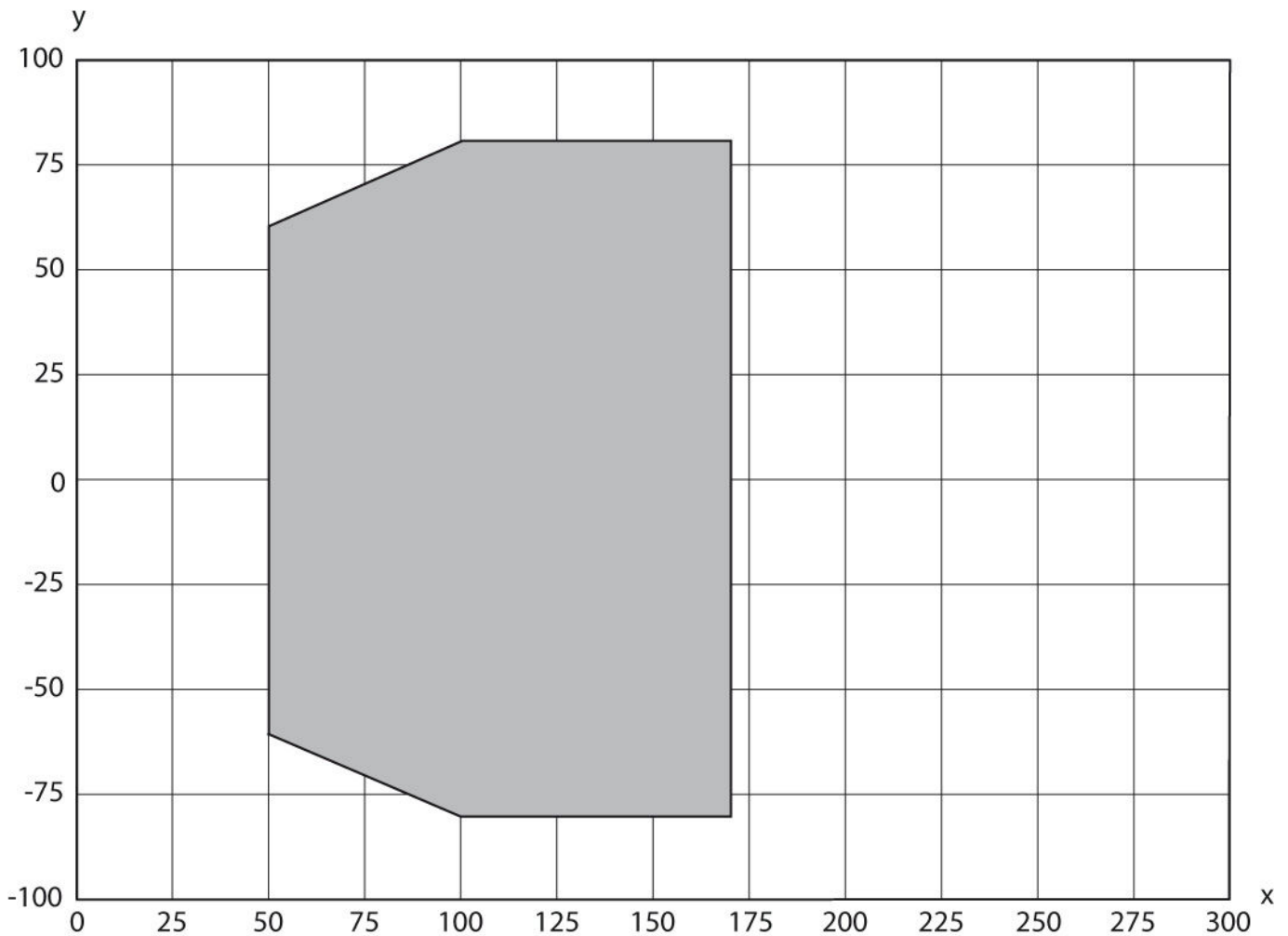
eCl@ss 8.0	27280190
eCl@ss 9.0	27280190

Dimensioned drawings

All dimensions in millimeters





Diagrams

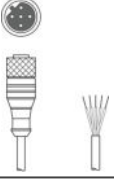
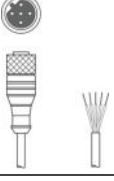
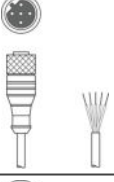





Accessories



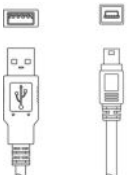
Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50104170	KB SSI/ IBS-10000-BA	Interconnection 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
	50104169	KB SSI/ IBS-15000-BA	Interconnection 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: 15,000 mm Sheathing material: PUR

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	Part no.	Designation	Article	Description
	50104172	KB SSI/ IBS-2000-BA	Interconnection 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
	50108446	KB SSI/ IBS-30000-BA	Interconnection 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: 30,000 mm Sheathing material: PUR
	50104171	KB SSI/ IBS-5000-BA	Interconnection 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: 5,000 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
	50132080	KD U-M12-5A- V1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC



Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50128804	KB 307-10000 FLEX	Interconnection cable	Suitable for interface: SSI Connection 1: Socket connector Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR
	50126132 *	KB 307-3000	Interconnection cable	Suitable for interface: SSI Parameter memory: Yes Connection 1: Socket connector Connection 2: Socket connector, 10 -pin, 6 -pin Shielded: Yes Cable length: 3,000 mm Sheathing material: PVC
	50117011	KB USB A - USB miniB	Service line	Suitable for interface: USB Connection 1: USB Connection 2: USB Shielded: Yes Cable length: 1,500 mm Sheathing material: PVC



* Necessary accessories, please order separately

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Connection technology - Connectors


	Part no.	Designation	Article	Description
	50038538	KD 02-5-BA	Connector	Suitable for interface: PROFIBUS DP, MultiNet Plus Connection: Connector, M12, Axial, Female, B-coded, 5 -pin
	50020501	KD 095-5A	Connector	Connection: Connector, M12, Axial, Female, A-coded, 5 -pin

Connection technology - Terminal boxes



	Part no.	Designation	Article	Description
	50126131 *	MK 307	Connection unit	Suitable for: BPS 307i Suitable for interface: SSI Parameter memory: Yes Number of connections: 3 Piece(s) Connection: Terminal
	50126130 *	MS 307	Connection unit	Suitable for: BPS 307i Suitable for interface: SSI Parameter memory: Yes Number of connections: 3 Piece(s) Connection: Connector, M12

* Necessary accessories, please order separately

Mounting technology - Mounting brackets


	Part no.	Designation	Article	Description
	50121433	BT 300 W	Mounting device	Contains: 4x M4 x 10 screw, 4x position washers, 4x lock washers Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Adjustable Material: Metal

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 Mounting bracket, 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	Design of mounting device: Mounting system Mounting bracket, 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 Functions: Static applications

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Mounting technology - Other

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





Bar code tape

	Part no.	Designation	Article	Description
	50038895	BCB 005	Bar code tape	Dimensions: 47 mm x 5,000 mm Grid dimension: 40 mm
	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
	50037491	BCB 030	Bar code tape	Dimensions: 47 mm x 30,000 mm Grid dimension: 40 mm
	50037492	BCB 040	Bar code tape	Dimensions: 47 mm x 40,000 mm Grid dimension: 40 mm
	50038894	BCB 050	Bar code tape	Dimensions: 47 mm x 50,000 mm Grid dimension: 40 mm
	50038893	BCB 060	Bar code tape	Dimensions: 47 mm x 60,000 mm Grid dimension: 40 mm

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	Part no.	Designation	Article	Description
	50038892	BCB 070	Bar code tape	Dimensions: 47 mm x 70,000 mm Grid dimension: 40 mm
	50038891	BCB 080	Bar code tape	Dimensions: 47 mm x 80,000 mm Grid dimension: 40 mm
	50038890	BCB 090	Bar code tape	Dimensions: 47 mm x 90,000 mm Grid dimension: 40 mm
	50037493	BCB 100	Bar code tape	Dimensions: 47 mm x 100,000 mm Grid dimension: 40 mm
	50040042	BCB 110	Bar code tape	Dimensions: 47 mm x 110,000 mm Grid dimension: 40 mm
	50040043	BCB 120	Bar code tape	Dimensions: 47 mm x 120,000 mm Grid dimension: 40 mm
	50040044	BCB 130	Bar code tape	Dimensions: 47 mm x 130,000 mm Grid dimension: 40 mm
	50040045	BCB 140	Bar code tape	Dimensions: 47 mm x 140,000 mm Grid dimension: 40 mm
	50040046	BCB 150	Bar code tape	Dimensions: 47 mm x 150,000 mm Grid dimension: 40 mm
	50037494	BCB 200	Bar code tape	Dimensions: 47 mm x 200,000 mm Grid dimension: 40 mm

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	Part no.	Designation	Article	Description
	50102600	BCB special length 25mm height	Bar code tape	Dimensions: 25 mm
	50037495	BCB special length 47mm height	Bar code tape	Dimensions: 47 mm Grid dimension: 40 mm
	50126134	MVO Label 40mm 10er Pack	Label set	Dimensions: 47 mm x 40 mm Grid dimension: 40 mm
	50106478	MVS label 40mm 10 pieces	Label set	Dimensions: 47 mm x 40 mm Grid dimension: 40 mm