



Part no.: 50136335
BPS 304i SM 100 H
Bar code positioning system



Figure can vary

Contents

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

Technical data

Basic data	
Series	BPS 300i
Order guide	Bar code tape must be ordered separately Operation only possible in combination with MS 3xx or MK 3xx connection unit
Functions	
Functions	Heating
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	0.001 ... 10 mm
Reproducibility (1 sigma)	0.05 mm
Measurement value output	1 ms
Max. traverse rate	10 m/s
Electrical data	
Protective circuit	Polarity reversal protection Short circuit protected
Performance data	
Supply voltage U_B	18 ... 30 V , DC
Power consumption, max.	17.7 W
Inputs/outputs selectable	
Output current, max.	60 mA
Number of inputs/outputs selectable	2 Piece(s)
Input current, max.	8 mA
Interface	
Type	PROFIBUS DP
PROFIBUS DP	
Function	Process
Classification	V0
Transmission speed	0.0096 ... 12 Mbit/s
Service interface	
Type	USB
USB	
Function	Configuration via GSD modules Service
Mechanical data	
Dimension (W x H x L)	100 mm x 108.7 mm x 48.3 mm
Housing material	Metal , Diecast aluminum

Part no.: 50136335 – BPS 304i SM 100 H – Bar code positioning system

Lens cover material	Glass
Net weight	580 g
Housing color	Red Silver
Type of fastening	Dovetail grooves Fastening on back Via optional mounting device

Operation and display

Type of display	LED
Type of configuration	Via web browser

Environmental data

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

Certifications

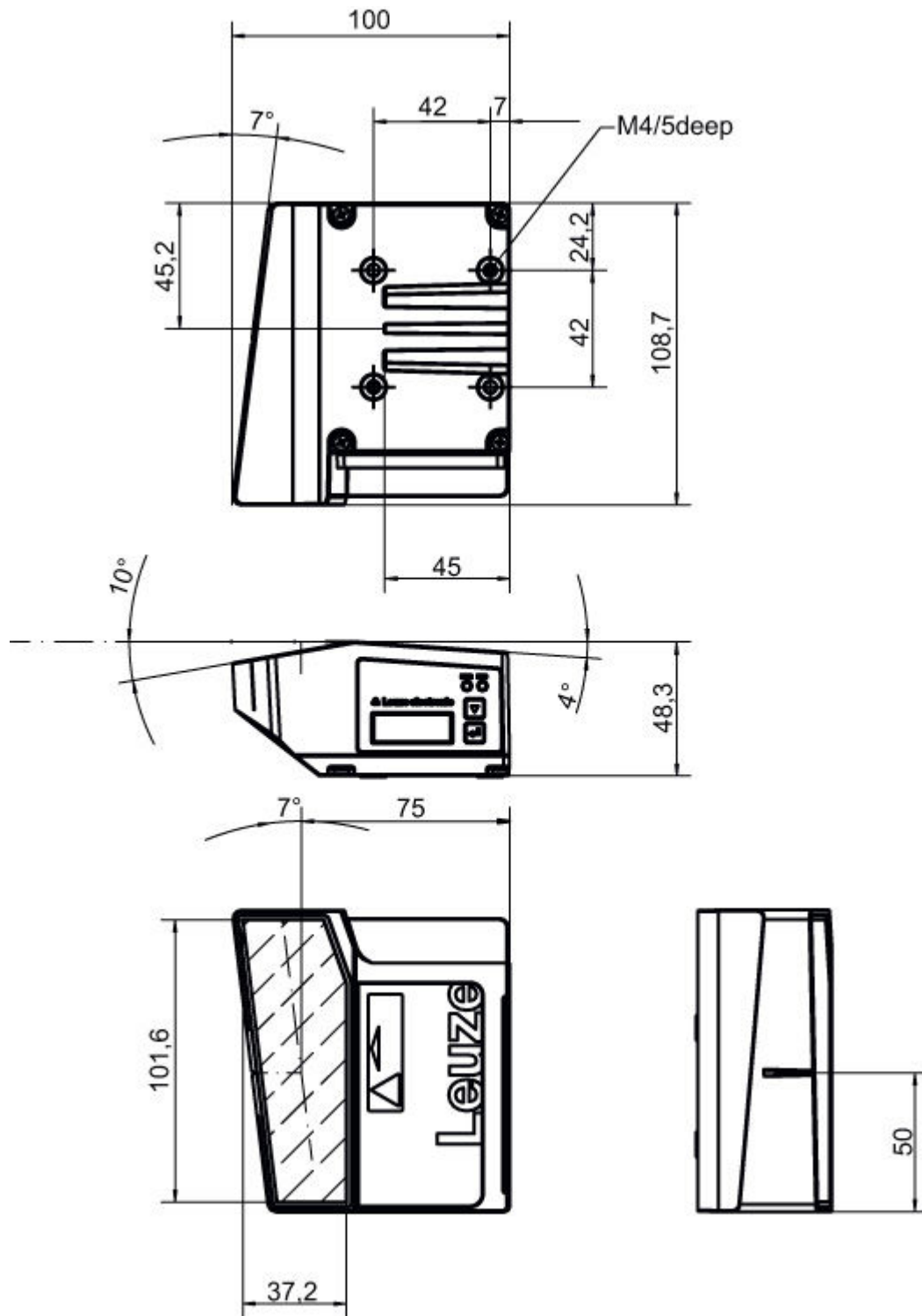
Degree of protection	IP 65 , EN 60529 with various connectors or screwed-on caps
Protection class	III
Certifications	c UL US

Classification

Customs tariff number	84719000
eCl@ss 8.0	27280190
eCl@ss 9.0	27280190
ETIM 5.0	EC001825
ETIM 6.0	EC001825

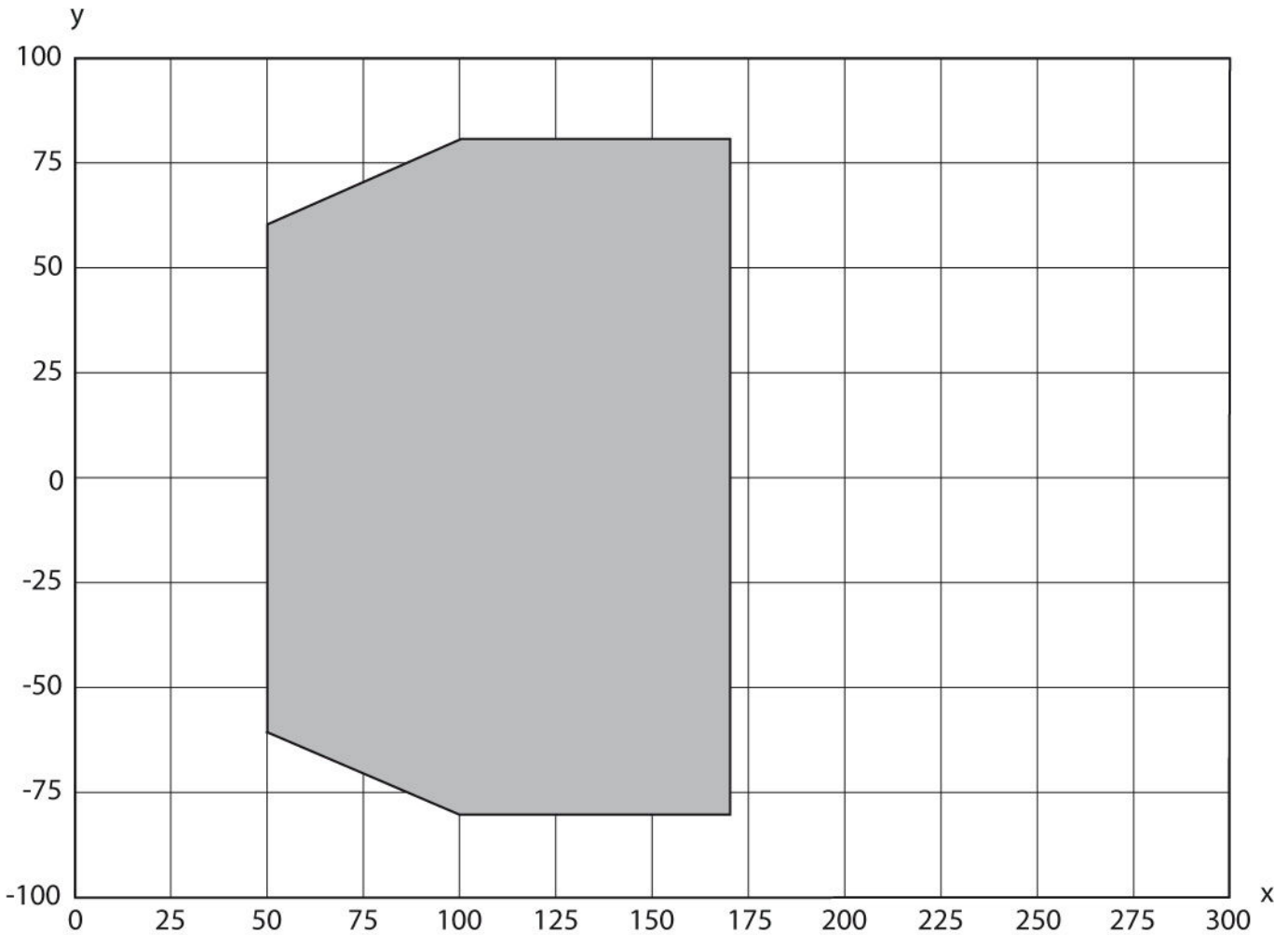
Dimensioned drawings

All dimensions in millimeters



Diagrams

Reading field curve



x Reading field distance [mm]
y Reading field width [mm]

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
Y Z	Special equipment: n/a: no special equipment D: with display H: with heating D H: optionally with display and heating

Note









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

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
  	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
  	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

Connection technology - Interconnection cables


	Part no.	Designation	Article	Description
   	50135253	KDS PB-M12-4A-M12-4A-P3-020	Interconnection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Female, B-coded, 2 -pin Connection 2: Connector, M12, Axial, Male, B-coded, 4 -pin Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR
   	50135255	KDS PB-M12-4A-M12-4A-P3-100	Interconnection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Female, B-coded, 2 -pin Connection 2: Connector, M12, Axial, Male, B-coded, 4 -pin Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR

Connection technology - Connectors



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

Part no.: 50136335 – BPS 304i SM 100 H – Bar code positioning system

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 - Connection boxes


	Part no.	Designation	Article	Description
	50116465 *	MK 304	Connection unit	Suitable for: BCL 304i, BPS 304i Suitable for interface: PROFIBUS DP Number of connections: 4 Piece(s) Connection: Terminal
	50116470 *	MS 304	Connection unit	Suitable for: BCL 304i, BPS 304i Suitable for interface: PROFIBUS DP Number of connections: 4 Piece(s) Connection: Connector, M12

* Necessary accessories, please order separately

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

Mounting technology - Other



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

Part no.: 50136335 – BPS 304i SM 100 H – Bar code positioning system

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.