

Technical data sheet Bar code positioning system

Part no.: 50139944

BPS 338i SM 100 D



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Technical data



Basic data

MTTF

Series	BPS 300i
Order guide	Bar code tape must be ordered separately
	Operation only possible in combination with MS 3xx, MK 3xx or ME 338 103 connection unit

83 years

Characteristic parameters

Optical data	
Depth of field	50 170 mm
Light source	Laser, Red
Wavelength	655 nm
Laser class	1, in accordance with IEC 60825-1:2014 (EN 60825-1:2014)
Transmitted-signal shape	Continuous
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 ms
Max. traverse rate	10 m/s

Electrical data

Protective circuit	Polarity reversal protection
	Short circuit protected

Performance	data
Cumply valtage	11

Supply voltage U _B	18 30 V, DC
Power consumption, max.	3.7 W

Inputs/outputs selectable

Interface

Туре

Туре	EtherCAT

Service interface

USB	
Function	Configuration/parameterization via
	integrated web server

USB

Mechanical data

Design	Cubic
Dimension (W x H x L)	100 mm x 108.7 mm x 48.3 mm
Housing material	Metal
Metal housing	Diecast aluminum
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
	Monochromatic graphic display, 128 x 32 pixels
Type of configuration	via TwinCAT ESI file or service USB/ webConfig via web browser

Environmental data

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

Certifications

IP 65, EN 60529 with various connectors or screwed-on caps
III
c UL US
EN 61000-6-2
EN 61000-6-3
IEC 60068-2-27, test Ea
IEC 60068-2-29, test Eb
IEC 60068-2-6, test Fc

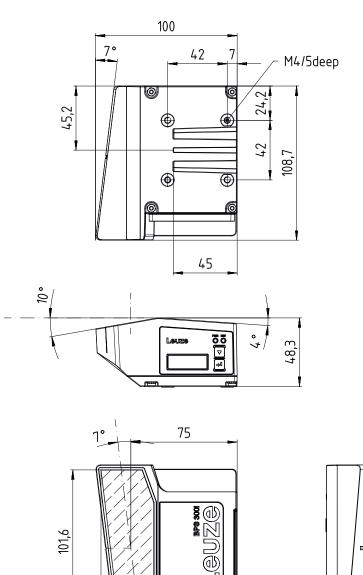
Classification

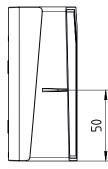
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ECLASS 11.0	27280190
ECLASS 12.0	27280106
ECLASS 13.0	27280106
ETIM 5.0	EC001825
ETIM 6.0	EC001825
ETIM 7.0	EC001825
ETIM 8.0	EC001825

Dimensioned drawings



All dimensions in millimeters



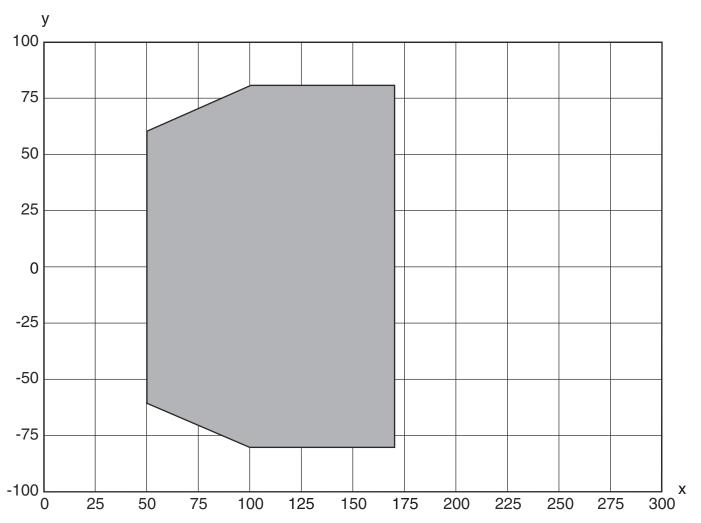


37,2

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 AA

BPS	Operating principle BPS: bar code positioning system
3XXXi	Series/interface (integrated fieldbus technology) 300i: RS 232 / RS 422 (stand-alone) 301i: RS 485 304i: PROFIBUS DP 307i: SSI 348i: PROFINET RT 338i: EtherCAT
SM	Scanning principle / optics S: line scanner (single line)
100	Beam exit 100: lateral

Part number code



Y Z

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

AA

Switching element
n/a: Transistor, PNP
02: Transistor, NPN

Note



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

Notes



Observe intended use!



- Solly use the product in accordance with its intended use.



ATTENTION! LASER RADIATION - CLASS 1 LASER PRODUCT



The device satisfies the requirements of IEC/EN 60825-1:2014 safety regulations for a product of **laser class 1** and complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

- 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.

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
VIII/	50132079	KD U-M12-5A-V1- 050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
W	50135074	KS ET-M12-4A-P7- 050	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR

Accessories



Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50137077	KSS ET-M12-4A- M12-4A-P7-020	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin Shielded: Yes Cable length: 2.000 mm Sheathing material: PUR
	50135080	KSS ET-M12-4A- RJ45-A-P7-020	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR

Connection technology - Connectors

		Part no.	Designation	Article	Description
-	0	50020501	KD 095-5A	Connector	Connection: Connector with screw terminals, M12, Axial, Female, A-coded, 5 -pin

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, Suited for M4 screws Material: Metal Shock absorber: No

Bar code tape

Part no.	Designation	Article	Description
50144190	BCB G40 H25 L010	Bar code tape	Dimensions: 25 mm x 10,000 mm Grid dimension: 40 mm

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Accessories



Part no.	Designation	Article	Description
50040041	BCB G40 H47 L010	Bar code tape	Dimensions: 47 mm x 10,000 mm Grid dimension: 40 mm
50037489	BCB G40 H47 L020	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 website in the Download tab of the article detailed page.