BPS 304I

Product Data Sheet

BPS304iSM100D

PROFIBUS Barcode Positioning Sensor

MANUFACTURER PART NUMBER	DEPTH OF FIELD	POSITION RANGE	REPRODUCIBILITY, ONE SIGMA
50125675	**50 to 170 mm**	**0 to 10000000 mm**	**0.05 mm**

Leuze BPS304iSM100D is the BPS 304i SM 100 D barcode positioning sensor, manufacturer part number 50125675. It obtains absolute position from a compatible barcode tape and transfers process data over PROFIBUS DP. The optical working distance is 50 to 170 mm, with lateral red-laser beam exit.

01 TECHNICAL DATA

Manufacturer part number	50125675
Depth of field	50 to 170 mm
Position range	0 to 10000000 mm
Reproducibility, one sigma	0.05 mm
Position-value output interval	1 ms
Maximum traverse speed	10 m/s
Supply voltage	18 to 30 V DC
Maximum power consumption	3.7 W
Selectable inputs/outputs	2
Switching element	PNP transistor

02 ADDITIONAL PRODUCT DATA

Process interface	PROFIBUS DP
Service interface	USB
Laser class	1 per IEC 60825-1:2014
Operating ambient	-5 to +50 degrees C
Protection	IP65 with correctly fitted connectors or caps

03 PRODUCT FUNCTION

The sensor provides position values at 1 ms intervals and supports traverse speeds up to 10 m/s. Specified one-sigma reproducibility is 0.05 mm. It operates from 18 to 30 V DC, consumes up to 3.7 W and includes selectable PNP I/O, USB service access and a local display.

04 SYSTEM COMPATIBILITY

Configure the PROFIBUS DP connection with the applicable GSD and the intended process-data arrangement. Set the station address and any selectable I/O functions for the project, and use the USB service interface for the documented configuration or service tasks.

05 REFERENCE

Leuze technical data sheet 50125675, BPS 304i SM 100 D. Manufacturer product specifications and drawings.

AMIKON PRODUCT SUPPORT

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