

Smart Sensor Solutions

INTELLIGENT DECISIONS WITH SMART SENSORS

A service of Robots in Search Pvt Ltd Australia

Datasheet BiCo 1.0



Success is countable!

Laser based bicycle counting



Laser based bicycle counting

BIKECOUNTING



ABOUT BiCo 1.0



The **BiCo 1.0** consists of 3D laser technology and ensures reliable bicycle counting with a counting accuracy of up to 97%. Its reliable 3D technology captures any scenes and objects in the infrastructure area. Due to the high refresh rate of 50 Hz, faster bikes such as e-bikes can also be recorded without any problems. Thanks to its robust housing, the **BiCo 1.0** can be used in all weathers and is therefore resistant to external environmental influences. The data protection harmlessness rounds off his profile.

FEATURES BiCo 1.0

- ✓ 3D laser for safe bicycle counting
- ✓ High counting accuracy of up to 97
- ✓ Mounting height from 6 - 8 m
- ✓ Detection width up to 2.4 m
- ✓ Direction of movement measurement
- ✓ Laser class 1 [eye safe]
- ✓ Compact and robust housing
- ✓ Insensitive to environmental influences [sun, rain]
- ✓ Harmlessness under data protection law

APPLICATION AREAS BiCo 1.0

- 🚲 Bicycle lanes
- 🚲 Rapid cycle routes
- 🚲 Cycling and hiking trails

TECHNICAL DETAILS BiCo 1.0



BICO 1.0

Hallmarks	
Installation height	6 m ... 8 m
Coverage long ago	5,6 m ... 8,4 m
Detection range across	1,6 m ... 2,4 m
Counting accuracy	up to 97 %
Laser class	Class 1 [eye-safe]
Scan and profile measurements	
Aperture angles	70° x 23°
Scanning frequency	25 Hz / 33 Hz / 50Hz
Electrical system	
Electrical connection	M12 connectors
Operating voltage	9 ... 32 VDC
Power input	Sensor: 4 W, Infrared illumination unit: 45 W
Dimensions [L x W x H]	Sensor: 145 mm x 85 mm x 71 mm
Dimensions [L x W x H]	Lighting unit: 143 mm x 85 mm x 84 mm
Heaviness	Sensor: 1.0 kg, lighting unit: 1.3 kg
Environmental data	
Operating ambient temperature	- 30°C ... + 70°C



Worldwide

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Oceania Region

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