



Datasheet
Optical Tracking System CamBar B1

Measurement area	Measurement distance between camera and measuring object	150 mm to 350 mm
	Measurement area at 150 mm	50 mm x 80 mm (W x H)
	Measurement area at 350 mm	210 mm x 200 mm (W x H)
Accuracy (for rigid bodies with the recommended geometry)	3D Positioning accuracy of a marker field*	0,01 mm
	Max length measurement error between two single points.	0,05 mm
Measurement frequency	Resolution 776x582 pixel	Up to 32 Hz
Dimensions	Dimension CamBar B1 (W/H/D)	17 cm x 9 cm x 17 cm
	Weight CamBar B1	1,7 kg
	Cable length MiniSplitter/CamBar	3 m, 5 m**
Target markers	Marker size from ... to	1.5 mm to 2.5 mm***
	Retro reflective markers	✓
	White, diffusely reflecting Markers	✓
	Spherical and flat round markers	✓ ****
Transport / Storage	Temperature range	-10°C to +60°C
	Humidity	Up to 75% at 30°C, not condensing
	Max. velocity	75 G for < 5 ms
	Air pressure	70 – 106 kPa*****
Operation	operating temperature	10°C to 35°C
	Humidity	25 to 70%, not condensing
	Air pressure	70 – 106 kPa
	Operating mode	Continuous
Power-/ consumption	Voltage	24 V DC (18 – 28 V DC)
	Consumption	16 W
Cleaning	Cleaning agent	Soap suds, some alcohol-based Disinfectants
Classification	Protection against electrocution.	Protection class I
	IP-Protection	IP40
Lighting	Wavelength	810 nm
interface	Interface to computer unit	Gigabit Ethernet

* Position of the main focus of a field of four single points (depends on the logical contraction of the locator field)
 ** additional lengths upon request
 *** the minimum diameter of the signalization is depending of the measuring distance.
 **** Spherical targets are possible in theory. However, the smallest available spherical targets are 5mm in diameter and therefore too big. We recommend flat markers.
 ***** at an altitude of sea level up to approximate 3000 metre.