

Fanbeam® 5

Specification

Laser	
Type	Semiconductor laser diode, 905 nm
Accuracy	20 cm
Maximum range	2000 m
Rep rate	7.5 kHz
Beam divergence	Vertical: 18° / horizontal: 2.5 mrad
Laser classification (BS EN 60825-1: 2007) (21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser No. 50, dated 24 June 2007)	Class 1
Motorised yoke	
Gearbox	Stepper-driven worm and wheel
Scan speed	Software selectable up to 50 °/s
Horizontal angle range	0° to 360°
Horizontal resolution	0.01°
Auto-tilt mechanism	
Gearbox	Servo-driven worm and wheel
Range	-15° to +15°
Communication	
Sensor to control system	20 mA current loop (9600 baud rate)
DP Feed	RS232/RS422/Ethernet telegrams for all major DP types
Environmental	
Operating temperature	-25 °C to +70 °C
Water/dust resistant	IP66
Compliance	EN 60945/EN 60950-1:2002
Vibration	DNV standard for certification no. 24 April 2001, section 3.6
Mechanical	
Enclosure construction	Machined aluminium
Sensor dimensions (W × L × H)	200 mm × 300 mm × 290 mm
Sensor weight	12.9 kg
Power supply unit	
Universal input	85 V-264 V ac / 47-440 Hz
Output	28 V dc 3.5 A
Control system	
CPU	1.1 GHz
Operating system	Windows XP embedded or Windows Embedded Standard
Touchscreen	Optional
Monitor	Various options
Monitor resolution	1024 × 768 × 16 k
Data comms	3 × RS232 / 2 × RS422 / 2 × Ethernet
Targets	
Recommended	Prism clusters offer optimum range and signal clarity
Alternative	Reflective tube target

Fanbeam 5 dimensions

