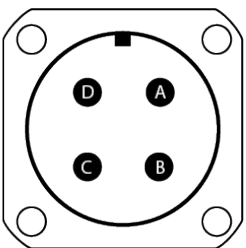# Leica MLS820
Laser Receiver
Data Sheet

The Leica MLS820 laser receiver is the eye of the system. The sensor receives the rotating beam of laser light and indicates its position as it strikes the sensor. This information is then transferred electronically to the control panel.The sensor provides five distinct positions of the laser beam. Used for automatic or manual control, the flashing LED indicators (Red = receiver is below grade, Green = Receiver is on grade, Yellow = Receiver is above grade) are ideally suited for all machine control applications.

MIL, male, 4-pin connector

Pin assignment

Pin	Name
A	V+
B	GND
C	CAN L
D	CAN H

Leica
Geosystems

Environmental Data

Water/Dust rating	IP66
Operation temperature	-20°C to 70°C
Storage temperature	-40°C to 85°C
Humidity	IEC 60068-2-30
Vibration	IEC 60068-2-6
Bump	IEC 60068-2-27

Mechanical Data

Weight	3.7 kg
Dimensions	132 x 221 x 436 mm
Material	Aluminum, steel, stainless, polycarbonate, plexiglass PMMA clear, polyester
Mounting clamp	Fits round or square mast 35 mm to 55 mm

Operational Characteristics

Capture window	33 cm*
Laser beam acceptance angle	360 degrees*
Laser transmitter speed	1200 rpm*
Accuracy typical	3.3 mm*
*Leica Rugby Laser CLA800	

Compliance

CE	2014/30/EU EMC 2011/65/EU RoHS and (EU) 2015/863 2012/19/EU WEEE
FCC	Part 15, Class B

Standards

EMC	EN/ISO13766-1: 2018 EN/ISO13766-2: 2018
Mechanical	EN ISO 12100:2010

Electrical

Voltage range	9V - 36V (DC)
Current consumption	0.5 A @ 24VDC
Reverse Voltage Protection	Yes
System Interface	CAN-BUS
Physical Interface	MIL-5015 Bayonet, size 14S, receptacle, 4 pins