

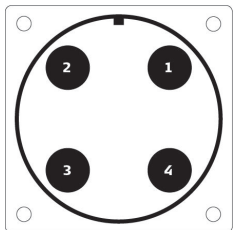
MSS401i

Boom 1 sensor

Data Sheet



Using its internal accelerometers and gyroscopes, the MSS401i boom 1 sensor precisely measures the boom angle(s) on an excavator equipped with Leica machine control. They feature a rugged and sturdy design, high accuracy, and reliable communication via CAN interface.



MIL, male, 4-pin connector

Pin assignment

Pin	Name
1	V+
2	CAN H
3	GND
4	CAN L

Environmental Data

Water/Dust rating	IP68
Operation temperature	-40°C to 105°C
Storage temperature	-40°C to 125°C

Mechanical Data

Weight	560 g
Dimensions	145 x 70 x 38 mm
Material	Casted aluminium
Colour	Black RAL 9005
Surface treatment	Powder paint

Operational Characteristics

Axis	2
Operating angle	± 180 degrees
Accuracy typical	± 0.1 degree at 25°C

Compliance

CE	2014/30/EU EMC 2011/65/EU RoHS - (EU) 215/863 2012/19/EU WEEE
FCC	Part 15, Class B

Standards

EMC	ISO13309: 2010 ISO13766: 2006 EN/ISO 14982: 2009
Mechanical	EN/ISO 12100:2010

Electrical

Voltage range	9V - 36V (DC)
Current consumption	25mA @ 24VDC
Physical interface	2 x 4 pin M12 male connector