

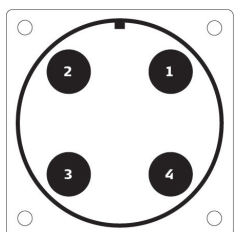
MSS400i

Pitch and roll sensor

Data Sheet



Using its internal accelerometers and gyroscopes, the MSS400i pitch and roll sensor precisely measures pitch and roll angles on an excavator equipped with Leica machine control. It features 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	155 g
Dimensions	95 x 55 x 25 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	4 pin M12 male connector