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OMI-2 – optical machine interface

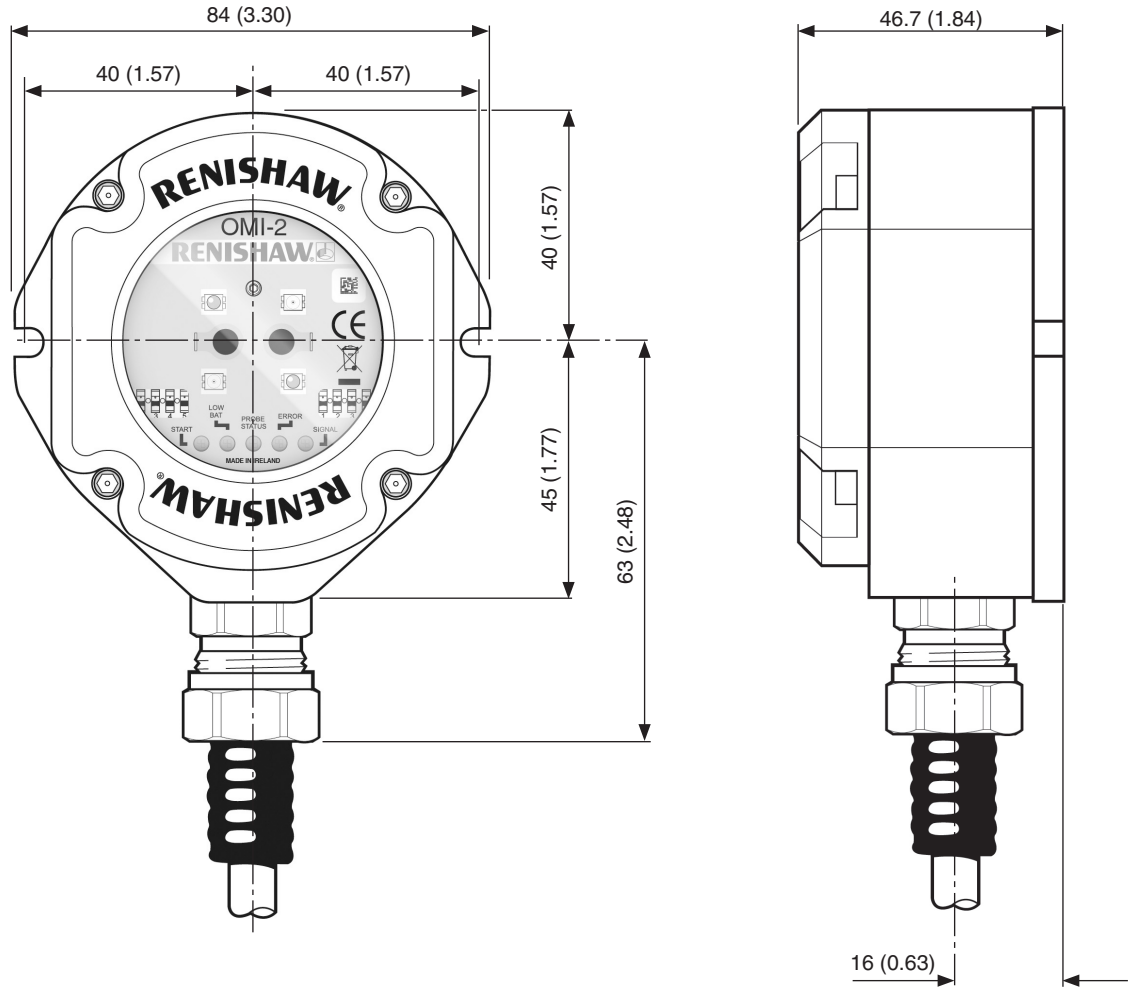


Specification

Principal application	The OMI-2 processes signals from RENGAGE™ technology or standard probes, and converts them into machine outputs, which are then transmitted to the CNC control.	
Weight	OMI-2 including 8 m (26.2 ft) of cable = 975 g (34.39 oz) OMI-2 including 15 m (49.2 ft) of cable = 1500 g (52.91 oz)	
Transmission type	Infrared optical transmission (modulated)	
Probes per system	One	
Compatible probes	Component setting/inspection: OMP40-2, OMP40M, OMP60, OMP60M, OMP400, OMP600 Lathe inspection: OLP40 Tool setting: OTS	
Operating range	Up to 6 m (19.7 ft)	
Supply voltage	12 Vdc to 30 Vdc	
Supply current	Transmitting: 100 mA max. Receiving: 40 mA max. **NOTE:** @24 Vdc, all outputs open circuit.	
Configurable M-code input	Pulsed or level	
Output signal	**Probe status 1, Low battery, Error** Voltage-free solid-state relay (SSR) outputs, configurable normally open or normally closed. **Probe status 2a** 5 V isolated driven output, invertible. **Probe status 2b** Power supply voltage driven output, invertible.	
Input / output protection	Supply protected by resettable fuse. Outputs protected by over current protection circuit	
Diagnostic LEDs	Start, Low battery, Probe status, Error and Signal condition.	
Cable (to machine controller)	Specification	Ø7.5 mm (0.29 in), 13-core screened cable, each core 18 × 0.1 mm
	Length	8 m (26.2 ft) and 15 m (49.2 ft)
Mounting	Flush mounting or directional mounting with optional mounting bracket (available separately).	
Environment	IP rating	IPX8, BS EN 60529:1992+A2:2013
	IK rating	IK03 BS EN 62262: 2002+A1:2021
	Storage temperature	–25 °C to +70 °C (–13 °F to +158 °F)
	Operating temperature	+5 °C to +55 °C (+41 °F to +131 °F)
	Indoor/outdoor use	Indoor use
	Altitude	≤ 3000 m (9843 ft)
	Relative humidity	5% to 95%
	Wet location	Yes, water/oil/coolant
	Pollution degree	Level 2

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Dimensions



Dimensions given in mm (in)

Spare parts and accessories

A full range of spare parts and accessories is available. Contact Renishaw for a full list.

www.renishaw.com/contact **#renishaw**

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