

OMI-2 – optical machine interface

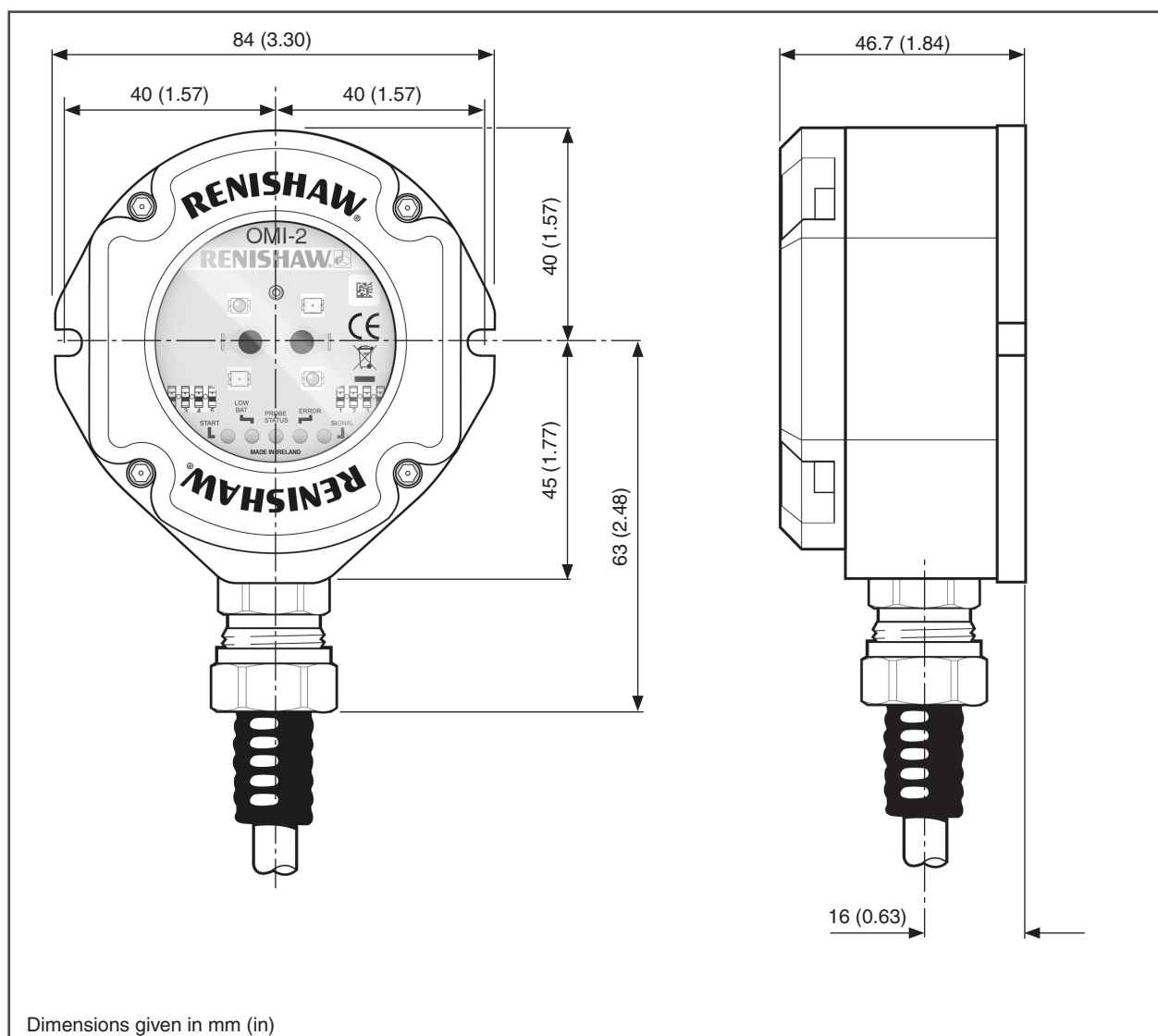


Specification

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

For further information and the best possible application and performance support, contact Renishaw or visit www.renishaw.com/omi-2

Dimensions



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

+44 (0) 1453 524524

uk@renishaw.com

© 2005–2026 Renishaw plc. All rights reserved. This document may not be copied or reproduced in whole or in part, or transferred to any other media or language by any means, without the prior written permission of Renishaw.

RENISHAW® and the probe symbol are registered trade marks of Renishaw plc. Renishaw product names, designations and the mark 'apply innovation' are trade marks of Renishaw plc or its subsidiaries. Other brand, product or company names are trade marks of their respective owners.

WHILE CONSIDERABLE EFFORT WAS MADE TO VERIFY THE ACCURACY OF THIS DOCUMENT AT PUBLICATION, ALL WARRANTIES, CONDITIONS, REPRESENTATIONS AND LIABILITY, HOWSOEVER ARISING, ARE EXCLUDED TO THE EXTENT PERMITTED BY LAW. RENISHAW RESERVES THE RIGHT TO MAKE CHANGES TO THIS DOCUMENT AND TO THE EQUIPMENT, AND/OR SOFTWARE AND THE SPECIFICATION DESCRIBED HEREIN WITHOUT OBLIGATION TO PROVIDE NOTICE OF SUCH CHANGES.

Renishaw plc. Registered in England and Wales. Company no: 1106260. Registered office: New Mills, Wotton-under-Edge, Glos, GL12 8JR, UK.

Part no.: H-2000-2205-02-A

Issued: 06.2026