

OMI-2 optical machine interface



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Before you begin

Warranty

Unless you and Renishaw have agreed and signed a separate written agreement, the equipment and/or software are sold subject to the Renishaw Standard Terms and Conditions supplied with such equipment and/or software, or available on request from your local Renishaw office.

Renishaw warrants its equipment and software for a limited period (as set out in the Standard Terms and Conditions), provided that they are installed and used exactly as defined in associated Renishaw documentation. You should consult these Standard Terms and Conditions to find out the full details of your warranty.

Equipment and/or software purchased by you from a third-party supplier is subject to separate terms and conditions supplied with such equipment and/or software. You should contact your third-party supplier for details.

CNC machines

CNC machine tools must always be operated by fully-trained personnel in accordance with the manufacturer's instructions.

Care of the interface

Keep system components clean and treat the unit as a precision tool. Do not apply labels to the front of the OMI-2 or otherwise obstruct the window.

Patents

None applicable.

OMI-2 software notices

This OMI-2 product includes embedded software (firmware) to which the following notices apply:

USA government notice

NOTICE TO UNITED STATES GOVERNMENT CONTRACT AND PRIME CONTRACT CUSTOMERS

This software is commercial computer software that has been developed by Renishaw exclusively at private expense. Notwithstanding any other lease or licence agreement that may pertain to, or accompany the delivery of, this computer software, the rights of the United States Government and/or its prime contractors regarding its use, reproduction and disclosure are as set forth in the terms of the contract or subcontract between Renishaw and the United States Government, civilian federal agency or prime contractor respectively. Please consult the applicable contract or subcontract and the software licence incorporated therein, if applicable, to determine your exact rights regarding use, reproduction and/or disclosure.

Renishaw software EULA

Renishaw software is licensed in accordance with the Renishaw licence at: **www.renishaw.com/legal/softwareterms**

Intended use

The OMI-2, which acts as a combined optical transceiver and machine interface, converts signals from the optical probe into voltage-free solid state relay (SSR) and driven outputs for transmission to the CNC machine controller.



Safety

Information to the user

In all applications involving the use of machine tools, eye protection is recommended.

The OMI-2 has a glass window. Handle with care if broken to avoid injury.

Information to the machine supplier / installer

It is the machine supplier's responsibility to ensure that the user is made aware of any hazards involved in operation, including those mentioned in Renishaw product literature, and to ensure that adequate guards and safety interlocks are provided.

If the probe system fails, the probe signal may falsely indicate a probe seated condition. Do not rely on probe signals to halt the movement of the machine.

Information to the equipment installer

All Renishaw equipment is designed to comply with the relevant UK, EU and FCC regulatory requirements. It is the responsibility of the equipment installer to ensure that the following guidelines are adhered to, in order for the product to function in accordance with these regulations:

- Any interface MUST be installed in a position away from any potential sources of electrical noise, (for example power transformers, servo drives).
- All 0 V/ground connections should be connected to the machine "star point" (the "star point" is a single point return for all equipment ground and screen cables). This is very important and failure to adhere to this can cause a potential difference between grounds.
- All screens must be connected as outlined in the user instructions.
- Cables must not be routed alongside high current sources (for example, motor power supply cables), or be near high-speed data lines.
- Cable lengths should always be kept to a minimum.
- the dc supply to this equipment must be derived from a source which is approved to IEC 62368-1.

Equipment operation

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Optical safety

This product contains LEDs that emit both visible and invisible light.

OMI-2 is ranked Risk Group: Exempt (safe by design).

The product was evaluated and classified using the following standard:

BS EN 62471:2008 The photobiological safety of lamps and lamp systems. (IEC 62471:2006)

Renishaw recommends that you do not stare at or look directly into any LED device, irrespective of its risk classification.



OMI-2 basics

Introduction

The OMI-2 is a combined optical receiver and machine interface which is designed to be mounted within the machine's working envelope.

The OMI-2 operates using a modulated optical transmission mode and is compatible with machine probes that also operate in modulated mode.

Power supply

The OMI-2 can draw its supply from the CNC machine's nominal 12 Vdc to 30 Vdc supply.

The maximum supply current is 100 mA when the OMI-2 is transmitting and 40 mA when the OMI-2 is receiving.

The values quoted are based on a 24 Vdc and assume all outputs are open circuit.

CAUTION: This equipment will only perform to specification if the power supply 0 V is connected to the machine ground (star point).

Input voltage ripple

The input voltage ripple must not cause the voltage to fall below 12 V or rise above 30 V.

OMI-2 visual diagnostics

A visual indication of system status is provided by LEDs. Indication is provided for:

- START SIGNAL
 PROBE STATUS
 SIGNAL CONDITION
- LOW BATTERY
 ERROR



NOTE: Keep the window clean (for more information, see page 4-1, "Cleaning the window".

Magnetic label

A summary of OMI-2 LED activity is provided on a magnetic label. The label may be placed on any machine flat metal surface.





START SIGNAL LED (yellow)

Lit when a START signal is transmitted to the probe.

This LED will either flash once when a "Machine Start" signal is commanded, or flash at one second intervals when the system is set to "Auto-Start" mode and is waiting for a probe transmission signal.

LOW BATTERY LED (red)

The LED is lit when the activated probe battery voltage falls below a set level.

Replace the probe battery as soon as is practicable after this LED is lit.

PROBE STATUS LED (green, red)

This bicolour LED is lit when the OMI-2 is powered.

Green-Probe is seated.Red-Probe is triggered or an error has occurred.

ERROR LED (red, blue, yellow, violet)

Indicates a transmission error condition, for example, optical beam obstructed, probe out of optical range, probe switched off or battery dead.

Red	_	No transmission:
		There is no signal from the probe.
Blue	_	Multiple probe detected:
		A second modulated signal is being received.
Yellow	_	Interference:
		Either the signal received from the probe is too weak, or interference is
		present.
Violet	-	Gauging:
		Interference or a weak probe signal has caused the trigger instant to be
		delayed.

NOTE: If the ERROR LED is activated because the blue or yellow condition causes the loss of a good probe signal, or the violet condition occurs, then the indication will persist until the "Machine Start" is activated or one hour has elapsed.

SIGNAL CONDITION LED (red, yellow, green)

This tricolour LED is lit when the OMI-2 is powered and indicates as follows:

Red	_	No communication:
		There is no signal from the probe.
Yellow	_	Interference:
		Either the signal received from the probe is too weak, or interference is
		present.
Green	_	Good communications:
		The condition of signal received from the probe is good.

OMI-2 inputs Machine start inputs:

Machine start inputs are configurable as a level or pulsed signal.

Level	10 V to 30 V (2.4 mA at 24 V)
	When the input is active, the probe is switched on.
Pulsed	12 V to 30 V (10 mA at 24 V)
	The probe toggles from being switched on/off. The minimum pulse width is 10 ms.

Machine start wires:

White = positive Brown = negative

OMI-2 outputs

There are five outputs:

- Probe status 1 (SSR).
- Probe status 2a (5 V isolated driven skip).
- Probe status 2b (driven at power supply voltage).
- Error (SSR).
- Low battery (SSR).

All outputs can be inverted by using switches SW1 and SW2, (for further information, see **page 2-8**, "Switches SW1 and SW2").

Probe status 1, Error, Low battery (SSR):

- "On" resistance = 50Ω max.
- Load voltage = 40 V max.
- Load current = 100 mA max.

Switching times

- Open to closed = 100 μs max.
- Closed to open = $25 \ \mu s \ max$.

Probe status 2a (5 V isolated driven skip):

• Load current = 50 mA max.



Output voltages

•	Sourcing	=	4.5 V min. at 10 mA.
			2.4 V min. at 50 mA.
•	Sinking	=	0.4 V max. at 10 mA.
			1.3 V max. at 50 mA.

Switching times

- Low to high = $20 \ \mu s \ max$.
- High to low = $10 \ \mu s \ max$.

Probe status 2b (driven at power supply voltage):

Output voltages

•	Sourcing	=	2.6 V min. at 10 mA.
	(voltage supply –		3.5 V min. at 50 mA.
	output voltage)		
•	Sinking	=	2.0 V max. at 10 mA.
			2.9 V max. at 50 mA.

Switching times

•	Low to high	=	10 µs max.
•	High to low	=	10 µs max.

CAUTIONS:

Power supply voltage

Do not exceed 30 V between the following:

- the 0 V and the screen wire;
- the 12 V to 30 V supply wire and screen wire;
- the 12 V to 30 V supply wire and 0 V wires.

The use of in-line fuses at the machine cabinet end is recommended to provide protection for the OMI-2 and cable.

Screen connection

A good connection must be made to machine ground ("star point").

Output stage circuit

Ensure that outputs from the OMI-2 do not exceed specified current ratings.

OMI-2 output waveforms

NOTE: Outputs can be inverted by using switches SW1 and SW2 (for further information, see **page 2-8**, "Switches SW1 and SW2").

				Probe				
OMI-2 SSR/driven outputs	Power off Probe switch on	Seated Probe	Triggered	Seated Probe reseat	d Error for example low signal	Error clear	Low battery ↓	Probe switch off
Probe status 1 (level)	SSR open							
Probe status 1 (pulsed)	SSR open							
Error L Normally closed	SSR open							







SIGNAL DELAYS

- 1. Transmission delay Probe trigger to output change of state = 1.3 ms max.
- 2. Start delay Time from initiation of start signal to valid signal transmission = 410 ms max. for kinematic probes and 1 second max. for strain gauge probes.

NOTE: Pulsed outputs are 40 ms ±1 ms duration.

Switches SW1 and SW2



NOTE: To gain access to the switches, remove the window, (for more information, see **page 4-2**, "Removing the OMI-2 window").

Switch SW2 output configuration



Switch SW1 output configuration

CAUTION: When using error or probe SSR in NO mode, a wiring fault could cause loss of error condition and therefore could result in a non-failsafe condition.



Switch-on / switch-off

Switch-on / switch-off method

The OMI-2 operates using either optical on / optical off as the switch-on / switch-off method or auto start.

Optical on / optical off is available with all Renishaw's OMP range of spindle probes and the optical tool setter (OTS). Time out, spin on / spin off and shank on / shank off options are also compatible with the OMI-2.

Auto start

Auto start selection causes the system to send a start signal at 1 second intervals, and should only be used when there is no available output from the machine control. In this mode, ensure start signals cannot be received by probes in the tool changer, on the machine table (for example OTS) or on other machines. Auto start is not recommended for use with the OTS.

Start-up times

In normal operation the start-up time for a modulated probe (as reported by the OMI-2 error signal) is 410 ms max. for kinematic probes and 1 second max. for strain gauge probes.

When turning the probe off and back on, allow 1 second between machine start inputs.

OMI-2 dimensions





Dimensions given in mm (in)



OMI-2 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 = 926 g (32.66 oz) OMI-2 including 15 m (49.2 ft) of cable = 1457 g (51.39 oz)			
Transmission type	Infrared optical transmis	sion (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 (for fur diagram")	rther information, see page 3-2 "Wiring		
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. 			
	Probe status 2b	iven output, invertible.		
Input / output protection	Probe status 2b Power supply voltage dr Supply protected by res	· ·		
Input / output protection Diagnostic LEDs	Probe status 2b Power supply voltage dr Supply protected by res Outputs protected by ov	ettable fuse.		
	Probe status 2b Power supply voltage dr Supply protected by res Outputs protected by ov	ettable fuse. er current protection circuit.		
Diagnostic LEDs Cable (to machine	Probe status 2b Power supply voltage dr Supply protected by reso Outputs protected by ov Start, Low battery, Probe	ettable fuse. er current protection circuit. e status, Error and Signal condition. Ø7.5 mm (0.29 in), 13-core screened cable,		
Diagnostic LEDs Cable (to machine	Probe status 2b Power supply voltage dr Supply protected by rest Outputs protected by ov Start, Low battery, Probe Specification	ettable fuse. er current protection circuit. e status, Error and Signal condition. Ø7.5 mm (0.29 in), 13-core screened cable, each core 18 × 0.1 mm		
Diagnostic LEDs Cable (to machine controller)	Probe status 2b Power supply voltage dr Supply protected by rest Outputs protected by ov Start, Low battery, Probe Specification Length Flush mounting or direct	ettable fuse. er current protection circuit. e status, Error and Signal condition. Ø7.5 mm (0.29 in), 13-core screened cable, each core 18 × 0.1 mm 8 m (26.2 ft) and 15 m (49.2 ft)		
Diagnostic LEDs Cable (to machine controller) Mounting	Probe status 2b Power supply voltage dr Supply protected by rest Outputs protected by ov Start, Low battery, Probe Specification Length Flush mounting or direct (available separately).	ettable fuse. er current protection circuit. e status, Error and Signal condition. Ø7.5 mm (0.29 in), 13-core screened cable, each core 18 × 0.1 mm 8 m (26.2 ft) and 15 m (49.2 ft) tional mounting with optional mounting bracket		
Diagnostic LEDs Cable (to machine controller) Mounting	Probe status 2b Power supply voltage dr Supply protected by rest Outputs protected by ov Start, Low battery, Probe Specification Length Flush mounting or direct (available separately).	ettable fuse. er current protection circuit. e status, Error and Signal condition. Ø7.5 mm (0.29 in), 13-core screened cable, each core 18 × 0.1 mm 8 m (26.2 ft) and 15 m (49.2 ft) tional mounting with optional mounting bracket IPX8, BS EN 60529:1992+A2:2013		

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System installation

Mounting bracket (optional)



Dimensions given in mm (in)

NOTE: Install the OMI-2 with cable exiting from lower side for good coolant run off.

Wiring diagram (with output groupings shown)



CAUTIONS:

The power supply 0 V should be terminated at the machine ground (star point). If a negative supply is used then the negative output must be fused.

The dc supply to this equipment must be derived from a source which is approved to BS EN IEC 62368-1.



Installation with inspection and tool setting probe

On machines where the OMI-2 is to be integrated with a tool setting probe input, and only one probe input is provided on the control, an M-code can be used to drive an external relay that will select which probe is monitored.



Remote external audible output

Any one of the probe status outputs can be used to drive an external audible indicator when set to pulsed (for further information, see **page 2-4**, "OMI-2 outputs").

NOTE: Audible indicator operation is not possible if both skip drives are being monitored by the control.

OMI-2 cable

Cable termination

A ferrule should be crimped onto each cable wire for a more positive connection at the terminal box.

Standard cable variants

The OMI-2 standard polyurethane cables are 8 m (26 ft) and 15 m (49.2 ft) long.

Please contact Renishaw for other cable lengths.

Cable specification

Ø7.5 mm (0.29 in), 13 core screened cable, each core 18×0.1 mm.

Cable sealing

Coolant and dirt are prevented from entering the OMI-2 by the cable sealing gland. The OMI-2 cable can be protected against physical damage by fitting a flexible conduit if required.

A recommended flexible conduit is Anamet[™] Sealtite HFX (5/16 in) polyurethane.

A conduit kit is available (see **page 6-1**, "Parts list").

CAUTIONS:

Failure to adequately protect the cable can result in system failure due to either cable damage or coolant ingress through cores into the OMI-2.

Failure due to inadequate cable protection will invalidate the warranty.

When tightening or loosening nut B on the conduit, ensure that torque is only applied between A and B.



Fitting flexible conduit



NOTE: Conduit bulkhead fittings require a clearance hole for an M16 thread.

- 1. Slide nut ${\bf B}$ and the plastic olive onto the conduit.
- 2. Screw the conduit termination piece into the end of the conduit.
- 3. Fit the conduit to adaptor **A** and tighten nut **B**.

Screw torque values Nm (lbf.ft)





Maintenance

You may undertake the maintenance routines described in these instructions.

Further dismantling and repair of Renishaw equipment is a highly specialised operation, which must be carried out at an authorised Renishaw Service Centre.

Equipment requiring repair, overhaul or attention under warranty should be returned to your supplier.

Cleaning the window

Wipe the window of the interface with a clean cloth to remove machining residue. This should be done on a regular basis to maintain optimum transmission.

CAUTION: The OMI-2 has a glass window. Handle with care if broken to avoid injury.



Removing the OMI-2 window

It is not necessary to remove the OMI-2 from the machine when adjusting the switch or installing replacement parts.

The window may be removed and replaced as described below to change the switch settings.

To remove the OMI-2 window



CAUTION: When removing the window, do not twist or rotate by hand.

- 1. Clean the OMI-2 thoroughly to ensure no debris or coolant enters the unit.
- 2. Remove the four cover screws, using a 2.5 mm A/F hexagon key. Two screws are short and two are long. Two of the cover holes are threaded **A**, and two are plain **B**.
- 3. The window fits tightly on the OMI-2 body, and is removed using the two long screws, which are inserted into the threaded holes A.
- 4. Tighten each screw a few turns at a time to pull the window up evenly. When it is clear of the body, remove the window and screws completely.





Fitting the OMI-2 window

- 1. Before fitting the window, check for any damage to screws or scratch marks which could prevent sealing.
- 2. Ensure the O-ring seating **C** in the OMI-2 body is clean.



3. Ensure that the O-ring **D** and window **E** are clean.



4. Insert the two short screws into window holes A, and tighten.



5. Place the window complete with the O-ring onto the OMI-2 body.

NOTE: The O-ring should be lightly lubricated with grease.

6. Insert the long screws into holes **B** and tighten each screw a few turns at a time, to pull the window down evenly. There may be some resistance due to some compression of air trapped inside the body.

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Fault-finding

Symptom	Cause	Action
The probe fails to switch	Installation / CNC program fault.	Correct the M-code wiring and/or
on when in "optical start"		the CNC program.
mode or fails to switch off when in "optical stop" mode.	The probe is out of the start range.	Change the CNC program to bring the probe within the start range of the OMI-2 and ensure that the appropriate start range is selected.
	The transmission beam is obstructed.	Clean the OMI-2 window and remove any obstructions.
	Incompatible probe / probe transmission setting.	Change the probe or probe setting to modulated PROBE1.
	Incorrect "machine start" setting.	Reconfigure the "machine start setting SW2".
	Dead optical probe batteries.	Change batteries.
	Optical interference is blocking the start signal.	Check the OMI-2 visual diagnostics, (for more information, see page 2-2 , "OMI-2 visual diagnostics"). Remove the source of interference or reposition the OMI-2 such that
		interfering light does not shine onto the OMI-2 window or probe window.
The probe stops in mid-cycle.	The transmission beam is obstructed.	Remove the obstruction.
or An unexpected error occurs during a probing cycle.	Optical interference.	Remove the source of interference or reposition the OMI-2 such that interfering light does not shine into the OMI-2 window.
or	Intermittent wiring fault.	Correct wiring.
An unexpected trigger occurs during the probing cycle.	The probe has moved outside the reception range.	Change the CNC program to bring the probe within the reception range of the OMI-2 and ensure that the appropriate reception range is selected.
	The probe is in "timer off" mode and has not been triggered for the timer period.	Increase the "timer off" time setting or change the probing routine.
	The probe has not been triggered for more than 90 minutes.	Restart the probe and ensure that the probe is not idle for 90 minutes.

Symptom	Cause	Action
The probe switches on,	Interfering light source is shining	Check the OMI-2 visual
but the OMI-2 error LED remains lit.	directly into the OMI-2 window.	diagnostics, (for more information, see page 2-2 , "OMI-2 visual diagnostics").
		Remove the source of interference or reposition the OMI-2 such that interfering light does not shine onto the OMI-2 window.
	The probe is out of range.	Check the signal condition LED.
		Change the CNC program to move the probe into the reception range of the OMI-2 and ensure the appropriate reception range is selected.
	The probe is triggered when OMI-2 is set to "level machine start".	Reseat the probe.
	A signal is being received from a probe on an adjacent machine tool.	Change the adjacent probe to low power mode or change the OMI-2 reception range to 50%, if this range is acceptable.
	Installation / CNC program fault.	Check wiring and CNC program.
The probe indicates low battery condition, but the machine control does not.	Installation / CNC program fault.	Correct low battery SSR wiring and/ or CNC program.
The machine control	Probe is not switched on.	Attempt to switch it on.
does not respond to the probe being triggered or seated.	Probe is out of range.	Change the CNC program to bring the probe within the reception range.
	Installation / CNC program fault.	Correct the probe status output(s) wiring and CNC program.
	A signal is being received from a probe on an adjacent machine tool.	Change the adjacent probe to low power mode or change the OMI-2 reception range to 50%, if this range is acceptable.
Probe triggers but the OMI-2 does not respond.	The OMP400 or OMP600 has the 3 second switch-on mode selected.	Reconfigure the OMP400 or OMP600 to the standard switch-on delay.
	The probe is out of range.	Review the performance envelopes.
	The transmission beam obstructed.	Check that the probe and OMI-2 windows are clean, and remove any obstruction.
	The probe is set to legacy transmission.	Reconfigure to modulated transmission.



Symptom	Cause	Action
Low battery, Probe status and Error LEDs are flashing red.	An output overload has occurred.	Remove power to the system and remove the source of the problem. Turning on the system will reset the OMI-2.
		If the system displays any other symptom, check the installation before contacting your local Renishaw office.

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Parts list

Туре	Part number	Description	
OMI-2 kit	A-5191-0049	OMI-2 with 8 m (26.2 ft) cable, magnetic label, tools and support	
		card.	
OMI-2 kit	A-5191-0050	OMI-2 with 15 m (49.2 ft) cable, magnetic label, tools and support	
		card.	
Mounting bracket	A-2033-0830	Mounting bracket.	
Conduit kit	A-4113-0306	Conduit kit with 1 m (3.28 ft) of polyurethane conduit and bulkhead	
		connector (M16 thread).	
Window	A-5191-0019	Comprising: window assembly with O-ring,	
replacement kit		$3 \times$ stainless steel M3 \times 14 mm long screws,	
		$3 \times$ stainless steel M3 \times 5 mm long screws and	
		1×2.5 mm hexagon wrench.	
Tools	A-5191-0300	Comprising: 1×2.5 mm hexagon wrench, 1×4 mm hexagon	
		wrench, 14 \times ferrules, 2 \times M5 screws, 2 \times M5 washers and	
		2 × M5 nuts.	
Publications. These can be downloaded from our website at www.renishaw.com			
OMP40-2	H-4071-8504	Installation guide: for set-up of the OMP40-2 optical machine probe.	
OLP40	H-5625-8504	Installation guide: for set-up of the OLP40 optical lathe probe.	
OMP400	H-5096-8504	Installation guide: for set-up of the OMP400 optical machine probe.	
OMP60	H-4038-8505	Installation guide: for set-up of the OMP60 optical machine probe.	
OMP600	H-5180-8504	Installation guide: for set-up of the OMP600 optical machine probe.	
OTS	H-5514-8504	Installation guide: for set-up of the OTS optical tool setting probe.	

NOTE: The serial number of each OMI-2 is found on the bottom of the housing.



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