

Olympus Heavy Duty Solenoid Controlled Access Lock



The Olympus 4HD is a heavy duty solenoid controlled access lock available with either a stainless steel tongue actuator or a heavy duty bolt assembly. The Olympus 4HD is capable of supporting Category 4 safety systems through its 2n/c 1n/o contacts and is ideal for all types of hinging or sliding access points with a good tolerance for misaligned guarding. The unit is locked by the solenoid when it is de-energized and opened when energized. A mechanical key override facility for the solenoid comes standard. The Olympus 4HD is ideal for use on production cells and automated production and assembly lines where fast access is required.

OPERATION

The Castell Olympus Solenoid controlled access lock is typically used for machine isolation in applications where a machine has to finish a cycle prior to isolation.

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- 1** Tongue actuator is trapped. No LEDs are lit.



While the power is on and the machine is running, the solenoid, which controls the tongue, is de-energised. This traps the tongue in the OLYMPUS unit.

- 2** An external signal energises the solenoid. The yellow LED illuminates. Retract the tongue actuator.



To open the guard the machine is instructed to stop via control circuit. On stopping a signal is sent to the solenoid in the OLYMPUS unit. With the solenoid energised, the tongue actuator can be retracted to break the contacts ensuring the machine cannot restart.

- 3** Solenoid is energised and tongue actuator is released. Red and yellow LEDs are lit.



With the tongue released the machine area can be accessed. The machine cannot restart until the tongue actuator is re-inserted and the contacts closed.

The OLYMPUS heavy duty solenoid controlled lock is available either with a stainless steel tongue actuator or heavy duty bolt (rushmore).

The OLYMPUS is available with different control and solenoid voltages (see order information on page 6 for more details).

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USAGE

The OLYMPUS solenoid controlled access lock is designed to be part of a safety system and is typically used as an access lock combined with machine isolation function in applications where a machine has to finish a cycle prior to isolation through the tongue actuator.



The OLYMPUS solenoid controlled access lock is not designed for security purposes.

INSTALLATION

OLYMPUS units should be mounted to a flat surface using suitable fasteners (please refer to drawing on page 4 for more details). The lock face should be sealed to the panel for ingress protection.

Cables should be connected to the switch in accordance with the applicable wiring diagrams. Ensure that the unit is bonded for earth continuity (see drawing on page 4 for more installation details).



IMPORTANT: The interlock should be mounted using anti-tamper fasteners to prevent unauthorised removal.



The OLYMPUS range of solenoid controlled access locks must be installed by a competent and qualified person who has read and understood these instructions. Please retain this document in your technical file.



The manufacturer should be consulted when use in a corrosive environment is planned.

MAINTENANCE

Periodic visual checks should be carried out by the site manager / safety officer.

Do not lubricate lock barrel with oil or grease, use CK dry powder graphite if necessary.



In case of defects being detected please contact your nearest Castell Support Department for further actions. Please see Contact section for contact details.



The interlock must be inspected every 6 months. Safety checks should include ensuring the tongue actuator can only be removed in the correct safety operating conditions (see page 1).

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TECHNICAL DATA

Temperature rating	Minimum: -5°C [23°F], Maximum: +40°C [104°F]*
Type of mounting	Panel mount using suitable fasteners (please refer to drawing on page 4 for more details)
Weight	4.0 kg
Material	Zinc alloy, stainless steel tongue*
Paint finish	Gloss powder coat on passivated base material*
Ingress protection	IP67 (DIN 40050)*
B10d	5,000,000
Performance level	Plc
Switches conformance	DIN VDE 0060 Part 206 & IEC 947-5-1
Maximum switch current	3A
Maximum switching voltage	230V AC Max
Connector type	M12 male

* Source: Fortress Interlocks data sheet

APPLICATION

The Olympus solenoid controlled access lock safety component is used as part of an integrated safety system.

A typical application of the OLYMPUS solenoid controlled access lock is machine guarding. It is usually connected to power isolators via control circuit.

When the machine is in operation the access door is locked via the de-energized solenoid in the OLYMPUS solenoid controlled access lock. To open the guard, the machine is instructed to stop via the control circuit. Once the machine has completed the cycle, an external signal is received by the solenoid. Retracting the tongue actuator will break the contacts ensuring the power is locked out.

The machine cannot be restarted until the door is closed and the tongue actuator is replaced in the OLYMPUS solenoid controlled access lock.



OLYMPUS
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EC-DECLARATION

We, the manufacturers, declare that the components detailed herein and placed on the market comply with all the essential health and safety requirements applying to them.

ISO 13849-1:2015 Safety of Machinery

2006/42/EC Machinery Directive

Empowered signatory:

Kirstie Van Oerle
Business Unit Director 

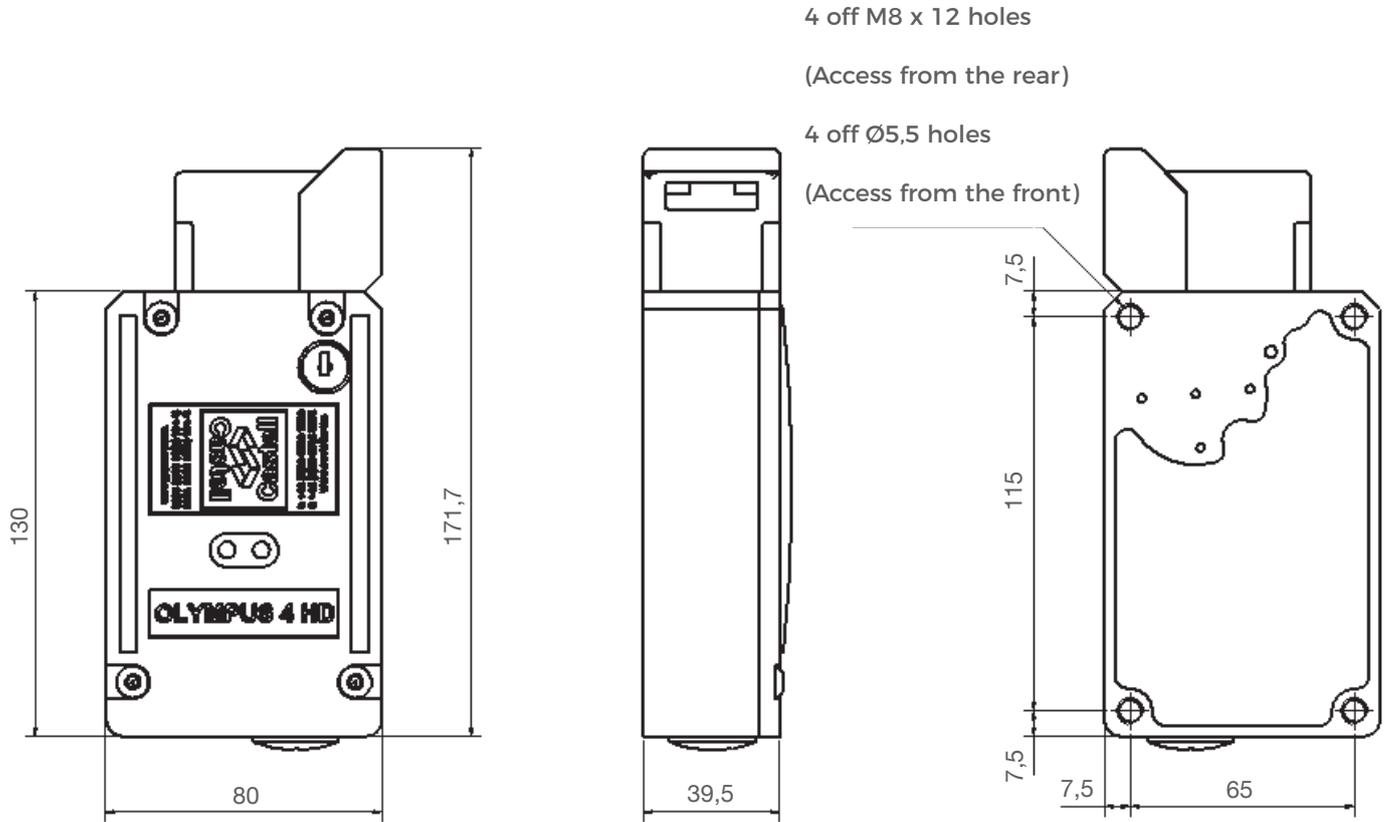
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DRAWING

Dimensions: in mm

Note: For safe mounting, use security screws

OLYMPUS

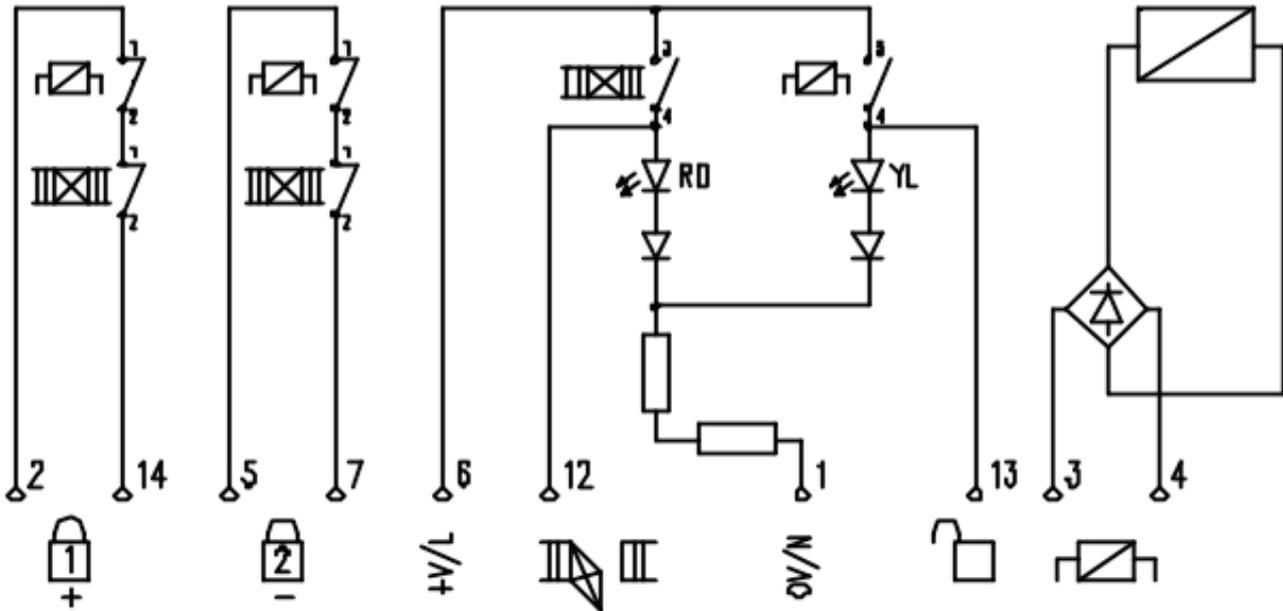


* Source: Fortress Interlocks Data Sheet

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WIRING DIAGRAM

OLYMPUS



* Source: Fortress Interlocks Data Sheet

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ORDER INFORMATION

	Component type	1	2	3	4
Part number	OLYM	S			
Example	OLYM	S	24	D	C 24 D

1	Solenoid voltage	24 / 110 / 230 V
2	Solenoid current	D = DC / A = AC
3	Control voltage	24 / 110 / 230 V
4	AC/DC	D = DC / A = AC

Special construction available upon enquiry

CONTACT INFORMATION

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