



# IO8 MODULE

- **Simplicity:** plug-and-play flexibility
- **Flexibility:** ability to control and automate
- **Integrated:** create a seamless solution with Access Portal

8 relays | 8 digital inputs

## WHO SHOULD USE THE IO8 MODULE?

The IO8 module provides the ability to seamlessly link events occurring in the access control system to actions on a wide range of third party equipment.

### PRODUCT BENEFITS:

- 8 inputs and 8 outputs in one module
- Inputs all have end-of-line sensing
- Seamlessly compatible with Access Portal software reducing the standard setup issues that most 3rd party I/O modules encounter

The IO8 module provides multiple connect and disconnect options for the customisation of your access control system and automation of your building.

Each IO8 module has eight digital inputs and eight relay outputs, giving you the ability to create custom sequences of events.

### EOL sensing

The digital inputs all feature end-of-line (EOL) sensing that can be configured to raise an alarm if cables are broken or tampered with, for added protection.

### Expandable

Up to eight IO8 modules can be combined with a single cluster controller, giving you up to 64 inputs and 64 outputs, for unrivalled flexibility and expansion of the system.

### Going further

The modules can be installed up to 150m from the cluster controller, using the S-Bus connection, with an additional local power source.

### On-site firmware upgrades

Should the unit need to be replaced, you simply unplug and plug in the new unit – meaning zero downtime. The module also includes 16 LED diagnostic indicators.

### Backward compatibility

The IO8 module provides backward compatibility with select older Impro products, to enable a simple migration path for upgrades.



# Specifications IO8 MODULE

Model name	IO8 Plastic	IO8 IPS
<b>Part number(s)</b>	HCO900	HCO901
<b>Product description</b>	IO8 module in plastic housing	IO8 module for IPS box
<b>Colour</b>	Black	N/A
<b>Dimensions (d-w-h)</b>	18.6cm x 9.9cm x 5.7cm [7.3" x 3.9" x 2.3"]	8.2cm x 38cm x 31cm [3.2" x 15" x 12.2"]
<b>Approximate product weight</b>	307 g [10.8 oz]	5.45 kg [2 lb]
<b>Material</b>	ABS plastic	ABS plastic
Electrical specifications		
<b>Input voltage</b>	12 to 15 VDC	
<b>Power requirements at 12 VDC relays off</b>	40 mA current 0.48 W power	
<b>Power requirements at 12 VDC all 8 relays active</b>	240 mA current 2.88 W power	
<b>Power input protection</b>	Reverse polarity and transient voltage protection	
Input specifications		
<b>Digital inputs</b>	Eight	
<b>Input type</b>	Universal dry contact inputs	
<b>End of line sensing (EOL)</b>	✓	
<b>Contact ratings</b>	10 A at 28 V DC 5 A at 220 V AC 12 A at 120 V AC  100,000 operations minimum	
Output specifications		
<b>Number of relay outputs</b>	Eight	
<b>Output type</b>	Relay output: 8 independent, single-pole, double-throw (SPDT) relays	
<b>Relay contacts</b>	NO • COM • NC	
Anti-tamper		
<b>Anti-tamper</b>	One PCB mounted switch	Tamper switch on IPS enclosure
Environmental specifications		
<b>Operating temperature</b>	-25° to +60° C [-13° to +140° F]	
<b>Storage temperature</b>	-40° to +80° C [-40° to +176° F]	
<b>Operating humidity</b>	0 to 95% relative humidity non-condensing (at +40° C / +104° F)	
<b>Environmental rating</b>	IP20	IP20 in closed IPS box
Certifications		
<b>CE (EU)</b>	✓	
<b>UL RoHS</b>	✓	
<b>SABS (RSA)</b>	✓	



**Impro Technologies**  
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in the access control industry

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