eurotech®
FIRE SYSTEMS LIMITED

ODYSSEY®

Odyssey Intelligent Twin Input/Output Unit (200-209SA)

The Intelligent Twin Input/Output Unit provides the function of two Input/Output Units within one enclosure. The two units are electrically independent of each other. There is a DIL switch on each unit to set the address.

Both input/output units in the enclosure provide supervision of one or more normally open volt free contacts connected to a single pair of cables and a set of changeover relay output contacts.

- Improved design for ease of wiring meaning faster installation
- Contains controllable isolator *
- Address range 1 - 254 *
- Nine pre-configured modes *
- Failsafe mode (meets BS 7273-4 requirements)
- Configurable input styles *

* Note: CoreProtocol enabled systems feature only, please check with your system partner for availability.

SPECIFICATIONS

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.	
Supply Voltage (Vmin–Vmax)	17 V-35 V dc
Digital communications protocol	Odyssey compatible 5-13 V Peak to Peak
Power up surge Quiescent current	900 µA per Input/Output Unit 500 µA per Input/Output Unit
Max current LEDs On	3.5 mA per Input/Output Unit
Max current LEDs disabled	500 µA per Input/Output Unit
Operating temperature	– 40°C to + 70°C
Relay output contact rating	1 A at 30 V dc or 250 V ac
Humidity (no condensation or icing)	0% to 95% RH
Vibration, impact and shock	EN 54-17:2005, EN 54-18:2005
IP rating	IP52
Standards and Approvals	EN 54-17:2005, EN 54-18:2005
Dimensions	60 mm height x 150 mm width x 90 mm depth
Weight	281 g

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TECHNICAL SPECIFICATION

Table 2: Intelligent Twin Input/Output Unit operating modes*	
1	DIL Switch XP Mode
2	Alarm delays
3	Output and N/O input (can be equivalent for Output only)
4	Output and N/C input
4	Output with Feedback (N/C)
6	FailSafe Output with Feedback (N/C)
7	FailSafe Output without Feedback
8	Momentary Input Activation Sets Output Relay
9	Input Activation Sets Output
** CoreProtocol enabled systems only*	

Failsafe Mode
In Failsafe mode the Intelligent Twin Input/Output Unit will activate the on-board relay without being commanded by the control panel on loss of loop or protocol loss. Failsafe mode is selected via a DIL switch and indicated with an analogue value of 17.

Mechanical Construction
The Intelligent Twin Input/Output Unit (see Figure 1) is available in the new faceplate style enclosure. This can be mounted with the supplied back-box for surface mounting or flush mounted using a UK double gang, flush mounting backbox of minimum depth 30mm.

EMC Directive 2014/30/EU
The Intelligent Twin Input/Output Unit complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this datasheet.
A copy of the Declaration of Conformity is available on request.
Conformity of the Intelligent Twin Input/Output Unit with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation 305/2011/EU
The Intelligent Twin Input/Output Unit complies with the essential requirements of the Construction Products Regulation 305/2011/EU.
A copy of the Declaration of Performance is available on request.

Connectivity
Refer to Figures 2, and 3 for unit connection information. Refer to Installation Guide for the installation instructions on this product. Table 3 details the status indications of this unit, from normal operation through to fault conditions.

Figure 1: Intelligent Twin Input/Output Unit dimensional drawing

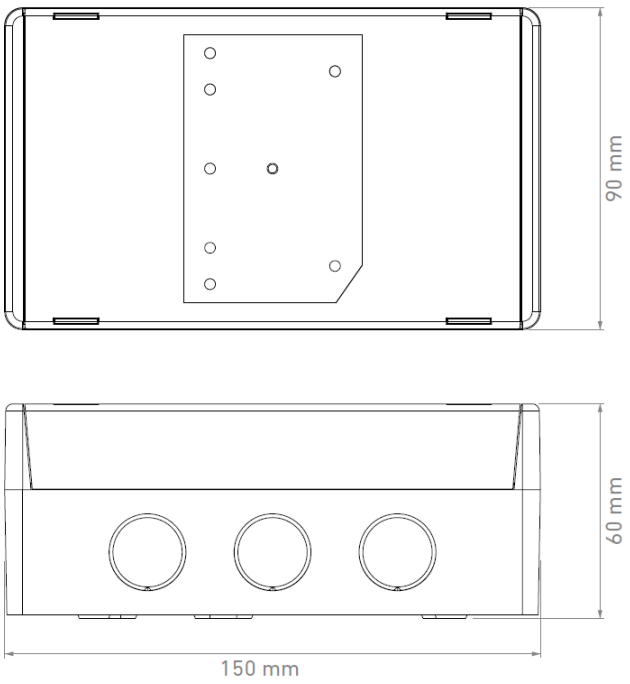

Table 3: Status Indications		
Legend	LED Status	Description
RLY	Continuous Red	Relay Active
RLY	Continuous Yellow	Relay Fault
Poll/ISOL	Flashing Green	Polling LED
Poll/ISOL	Continuous Yellow	Isolator LED
I/P	Continuous Yellow	Input Fault
I/P	Continuous Red	Input Active

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Figure 2: Intelligent Twin Input/Output Unit standard resistive monitoring mode connectivity diagram

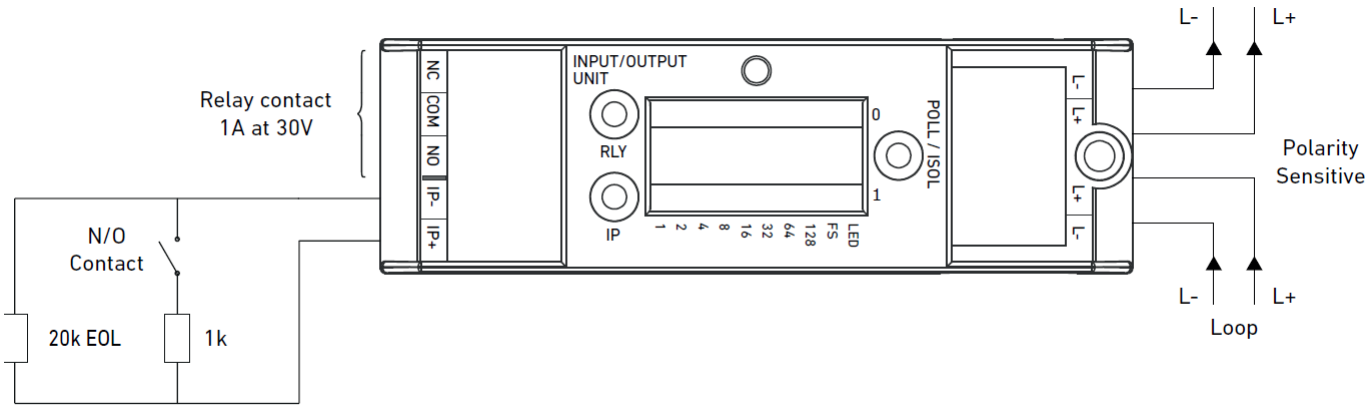


Figure 3: Intelligent Twin Input/Output Unit normally open monitoring mode connectivity diagram (compatible with CoreProtocol only)

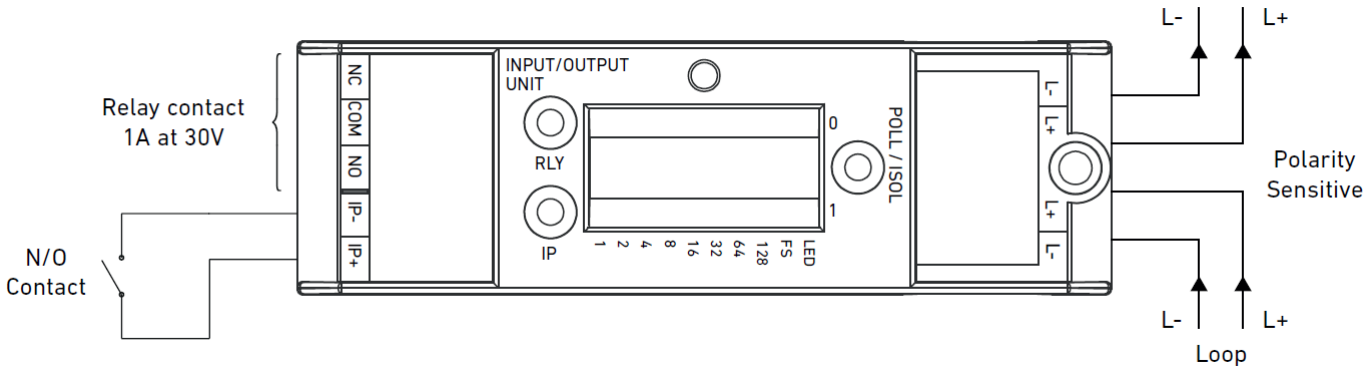
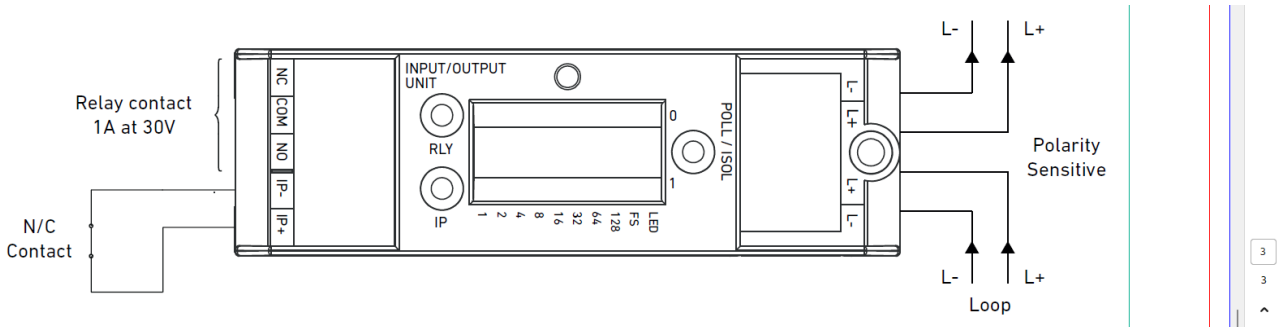


Figure 4: Intelligent Twin Input/Output Unit normally closed monitoring mode connectivity diagram (compatible with CoreProtocol only)



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