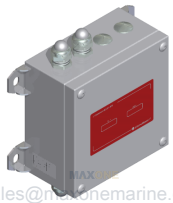
IC44 SS WP Stainless-Steel Weatherproof I/O Interface Module

Product reference	
Part No.	5100782-00A
Manufacturer	Consilium / Salwico
Model	IC44 SS WP



sales@maxonemarine.com

Product overview

The addressable I/O control unit IC44 SS WP is designed to control and monitor external devices, sush as fire doors, watermist, aerosols, HVAC etc. The control unit is connected to a loop in the same way as other fire alarm loop units and can be used in harsh and corrosive environments. The IC44 SS WP includes 4 inputs and 4 relay outputs (2-pole dry changing contacts). The inputs are designed to detect both active input, short and cable break. The loop address of the IC44 SS WP is set by a DIP-switch. This unit does not require an external 24 VDC separate power supply. High current consumers (i.e. proximity switches) on inputs may need external 24 VDC. NOTE! The use of proximity switches requires external 24 VDC supply. DIP-switches. (Use a pointed tool of suitable size.) Address switch SW1 The loop address of the control unit is set by DIP-switch SW1. SW2 DIP 8 must always be ON! External earth connection The external earth connection on the enclosure shall be connected to earth. For more information see the Installation & Commissioning manual. CAUTION! Do not use electrical screwdriver. Maximum torque 2 Nm.

Technical specifications

Ingress protection	IP66	Power output	24 VDC, 80 mA
Relative humidity	≤ 95 % RH non-condensing	Loop nominal voltage	35 VDC
Ambient temperature	-40°C to +70°C	Loop working voltage	22 - 38 VDC
Cable gland	M20 for cable ø 6–13mm	Loop current consumption	0.3 mA
Cable gland material	Nickel plated brass	Input end of line resistor	30kΩ (Included)
Cable terminals	2.5 mm2	SW2 DIP 8 requirement	SW2 DIP 8 must always be ON.
Enclosure material	Stainless steel AISI 304	Address switch	SW1 sets the loop address.
Gasket material	Polyurethane and silicone	External 24 VDC input terminals	13-16, 18-36 VDC, optional
Colour	Polished surface	Isolated 24 VDC output terminals	21-22, max 5 mA for local indicators; active only with external 24 VDC input on 13-16
Weight	≈1 kg	Output terminals	23-46, NC/NO output 1 to 4
Certification	EN 50155	External earth condition	Connect the enclosure external earth connection to earth; see the Installation & Commissioning manual.
External 24 VDC nominal voltage	24 VDC	Source datasheet	Data sheet no. 5100782-00A_IC44 SS WP_T_EN_2019_B
External 24 VDC working voltage	19 - 30 VDC	Specification change notice	The specifications described herein are subject to change without notice.
External 24 VDC max current	100 mA	Proximity switch supply condition	NOTE! The use of proximity switches requires external 24 VDC supply.
External 24 VDC nominal power output	24 VDC, 80 mA	Body width	150 mm
External 24 VDC max input load	15 mA per input. Pulsed.	Body height	150 mm
External 24 VDC input pulse length	100 ms	Body depth	80 mm
Loop-powered nominal voltage	Not provided	Overall width	200 mm
Loop-powered working voltage	Not provided	Overall height	196 mm
Loop-powered max current	Not provided	Mount width	175 mm
Loop-powered nominal power output	Not provided	Mount height	106 mm
Loop-powered max input load	5 mA per input. Pulsed.	Wall mounting holes	4 holes; max screw thread M8
Loop-powered input pulse length	8 ms	External earth connection thread	M6

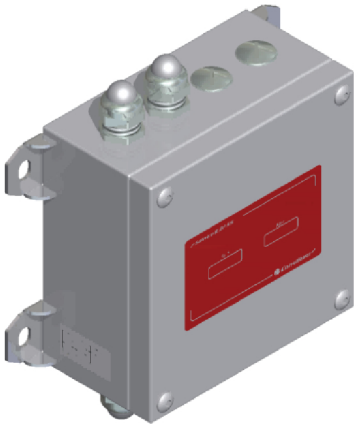
Inputs	4 inputs for closing contacts or NPN/PNP proximity switches	Installation caution	CAUTION! Do not use electrical screwdriver. Maximum torque 2 Nm.
Relay output rating	4 pcs 2-pole relay contacts, max 30 VDC, 1A	System association	TS1000

Table 1. ID for different operation modes set by SW2 DIP 1 to 5 · Source page 2		
Mode	**Function**	**Example**
1	2 inputs and 2 outputs	Emulates control unit CM-2x
2	4 inputs and 4 outputs	Emulates control unit CM-4x

SW2 function settings · Source page 2		
SW2 DIP	**Setting**	**Function**
6	ON	Must be set when external 24VDC power supply is used.
7		Not used

Terminal connections · Source page 2		
Terminal range	**Signal**	**Connection**
1-12 and 47-50	IN+	Input 1 to 4
	IN-	
	SIG	
	IND *	
13-16	+	External 24VDC input (18-36VDC). Optional.
	-	
17	A+	Loop IN & Loop OUT
18	A-	
21-22	+	Isolated 24VDC output (for local indications). Max 5 mA for local indicators. Note: Only active when external 24VDC input is connected to 13-16.
	-	
23-46	C	Output 1 to 4
	NC	
	NO	

* Local output indication with external resistor. Max load 5 mA.
Figure 2. Label on PCB is retained in the native source appendix on page 2.



G015095

Address Unit
IC44 SS WP

Part no. 5100782-00A

System: TS1000

General Description

The addressable I/O control unit IC44 SS WP is designed to control and monitor external devices, sush as fire doors, watermist, aerosols, HVAC etc.

The control unit is connected to a loop in the same way as other fire alarm loop units and can be used in harsh and corrosive environments.

The IC44 SS WP includes 4 inputs and 4 relay outputs (2-pole dry changing contacts). The inputs are designed to detect both active input, short and cable break.

The loop address of the IC44 SS WP is set by a DIP-switch.

This unit does not require an external 24 VDC separate power supply. High current consumers (i.e. proximity switches) on inputs may need external 24 VDC.

NOTE!
The use of proximity switches requires external 24 VDC supply.

Data

Common data

Inputs	4 inputs for closing contacts or NPN/PNP proximity switches. Local indication available.
Outputs	4 pcs 2-pole relay contacts, max 30 VDC, 1A.
Power output	24 VDC, 80 mA
Loop nominal voltage	35 VDC
Loop working voltage	22 - 38 VDC
Loop current consumption	0.3 mA
Input end of line resistor	30kΩ (Included)
Ingress protection	IP66
Relative Humidity	≤ 95 % RH non-condensing
Ambient temperature	-40°C to +70°C
Cable gland	M20 for cable ø 6–13mm Material: Nickel plated brass
Cable terminals	2.5 mm^2
Material	Enclosure: Stainless steel AISI 304 Gasket: Polyurethane and Silicone
Colour	Polished surface
Weight	≈1 kg
Certified according to	EN 50155

Data for external 24 VDC

Nominal voltage	24 VDC
Working voltage	19 - 30 VDC
Max current	100 mA
Nominal power output	24 VDC, 80 mA
Max load on inputs	15 mA per input. Pulsed.
Pulse length inputs	100 ms

Data without external 24 VDC (Loop powered)

Nominal voltage	n/a
Working voltage	n/a
Max current	n/a
Nominal power output	n/a
Max load on inputs	5 mA per input. Pulsed.
Pulse length inputs	8 ms

DIP-Switches

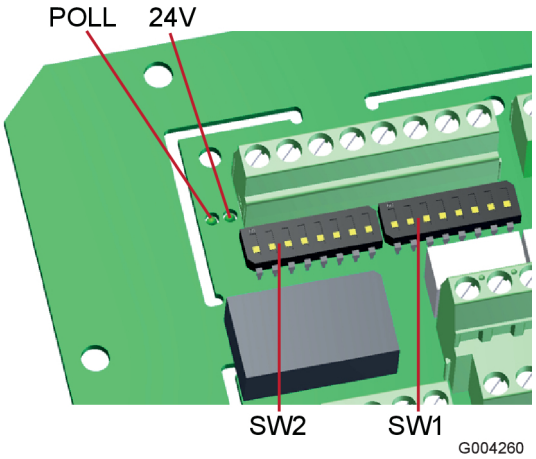


Figure 1. Location of DIP-switches and LEDs on the PCB

The following functions are set by the DIP-switches. (Use a pointed tool of suitable size.)

Address switch SW1

The loop address of the control unit is set by DIP-switch SW1.

Function switch SW2

The following functions are set by the switch SW2:

Table 1. ID for different operation modes set by SW2 DIP 1 to 5

ID	Function	Example
1	2 inputs and 2 outputs	Emulates control unit CM-2x
2	4 inputs and 4 outputs	Emulates control unit CM-4x

Table 2. Different functions set by SW2 DIP 6 to 7

SW2 DIP no.		Function
6	ON	Must be set when external 24VDC power supply is used.
7		Not used

CAUTION!
SW2 DIP **8** must always be ON!

Terminals

Table 3. List of terminal connections

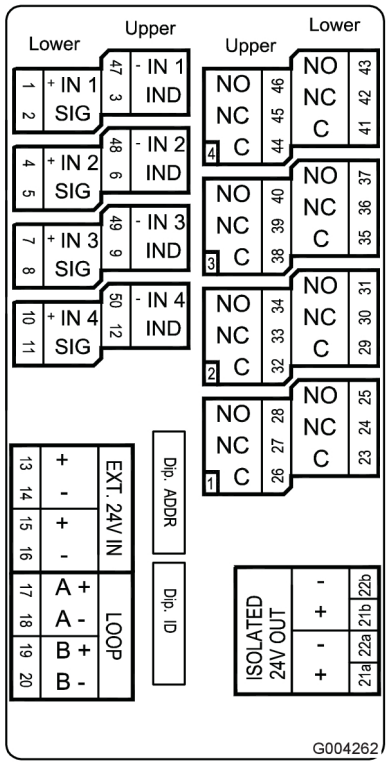
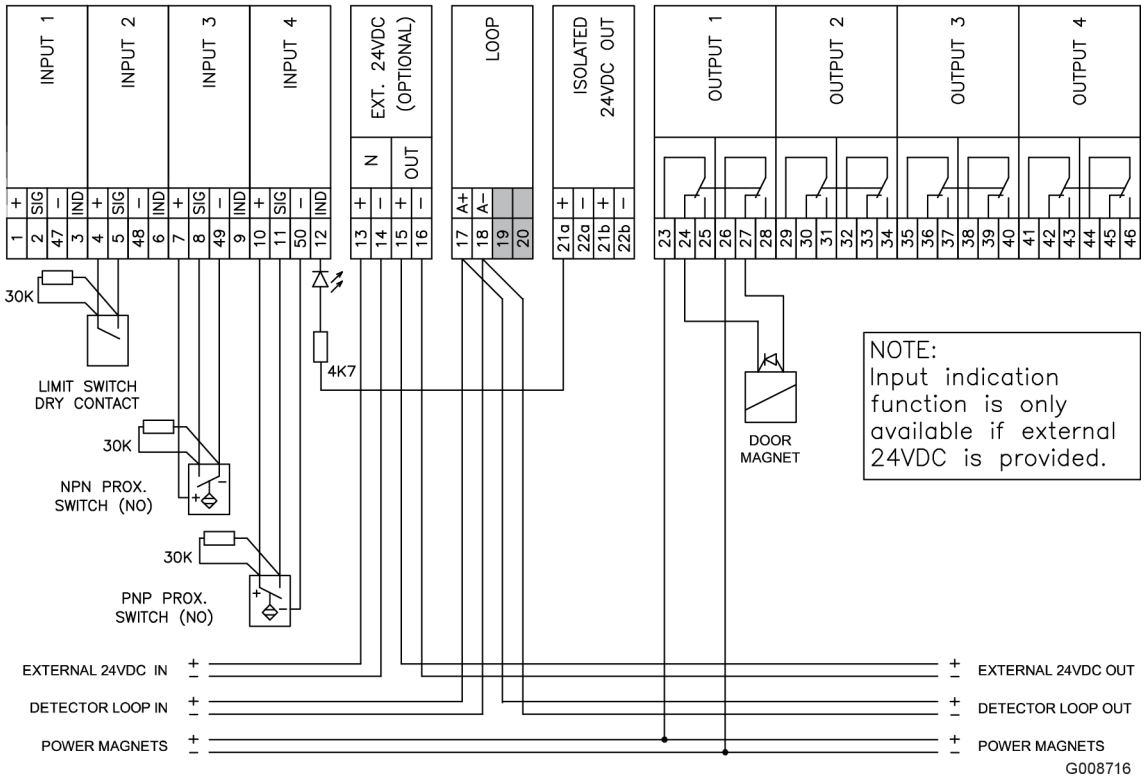
Terminal			Connection
	1-12 and 47-50	IN+	Input 1 to 4
		IN-	
		SIG	
		IND *	
	13-16	+	External 24VDC input (18-36VDC). Optional.
		-	
	17	A+	Loop IN & Loop OUT
	18	A-	
	21-22	+	Isolated 24VDC output (for local indications). Max 5 mA for local indicators. **Note**: Only active when external 24VDC input is connected to 13-16.
		-	
	23-46	C	Output 1 to 4
		NC	
		NO	

Figure 2. Label on PCB

* Local output indication with external resistor. Max load 5 mA.

Connection Examples



External earth connection

The external earth connection on the enclosure shall be connected to earth. For more information see the Installation & Commissioning manual.

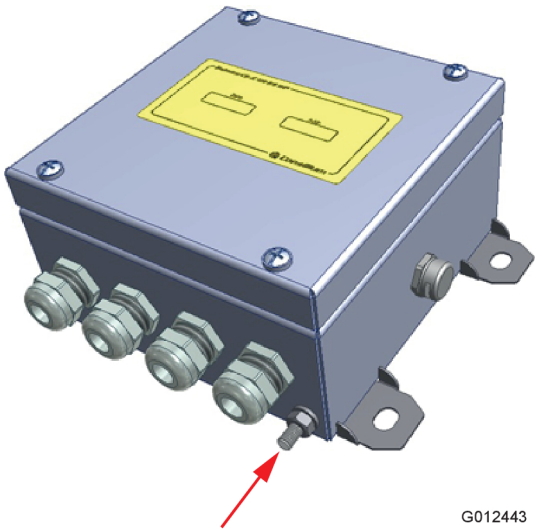
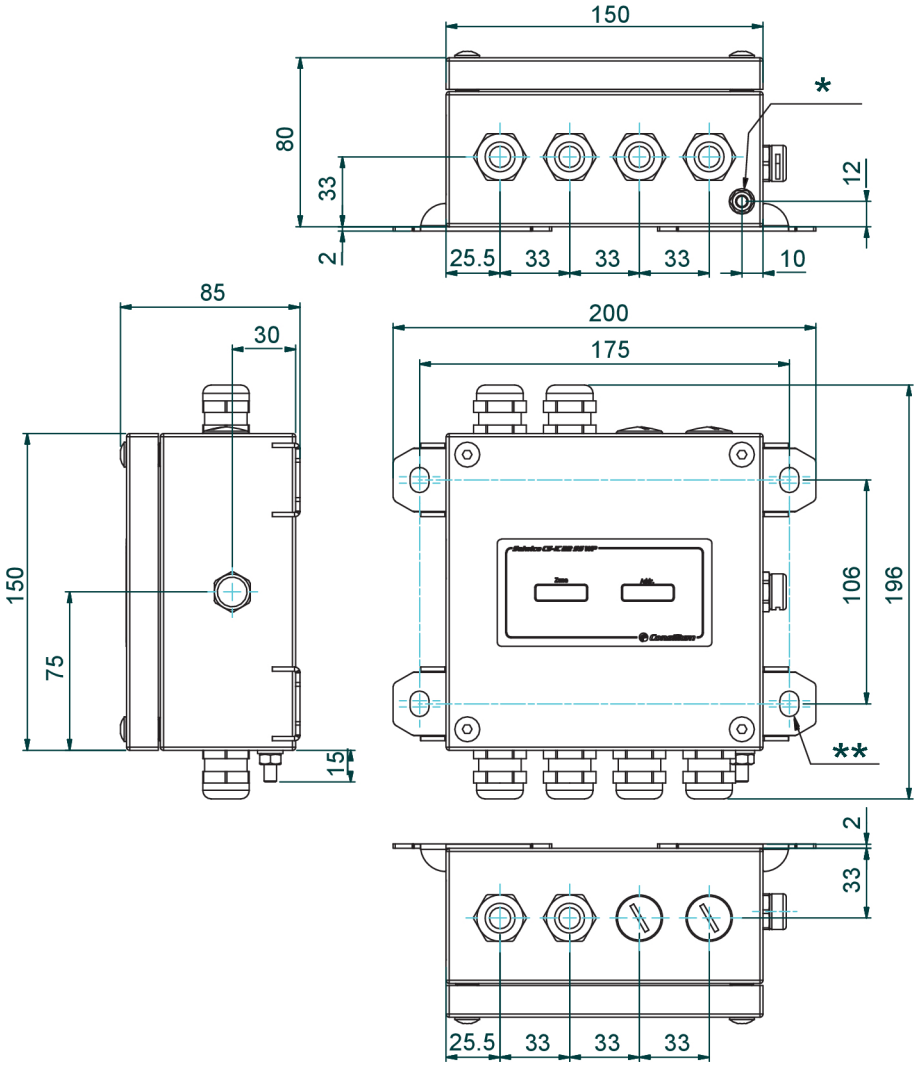


Figure 3. The M6 external earth connection

Dimensions (mm)



* **M6 external earth connection**

** **Holes for wall mounting (x4)**: Max screw thread M8

CAUTION!
Do not use electrical screwdriver.
Maximum torque 2 Nm.