



Installation manual

SA FIX Series

316L Fixed camera station

Note: To ensure proper operation, please read this manual thoroughly before using the product and retain the information for future reference.

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SA FIX Series
Installation Manual v3 AIT55

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DESCRIPTION

The SA-FIX W camera housing is a rugged corrosion proof camera housing designed for use in onshore, offshore, marine and heavy industrial environments. The camera housing is constructed from electro-polished 316L stainless steel for maximum corrosion protection and is fitted with an 316L sun-shield, a thermostatically controlled heater element, and a integrated wiper. The housing is not sold separately, it is only available in combination with a Siqura daylight camera module, such as the BC822v2H3-AS, and an interface (INT-RJ/SM/MM).

MODELS

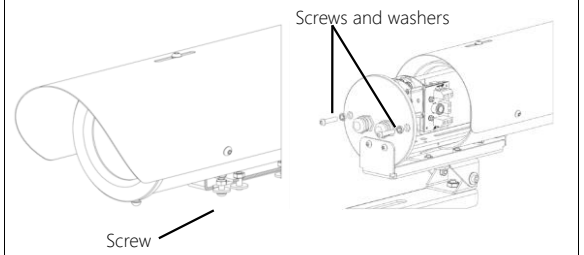
SA-FIX24	Safe Area Fixed Camera 316L 24VAC
SA-FIX115	Safe Area Fixed Camera 316L 115VAC
SA-FIX230	Safe Area Fixed Camera 316L 230VAC
SA-FIX24W	Safe Area Fixed Camera 316L 24VAC, Wiper
SA-FIX115W	Safe Area Fixed Camera 316L 115VAC, Wiper
SA-FIX230W	Safe Area Fixed Camera 316L 230VAC, Wiper
SA-FIX24T	Safe Area Fixed Thermal Camera 316L 24VAC
SA-FIX115T	Safe Area Fixed Thermal Camera 316L 115VAC
SA-FIX230T	Safe Area Fixed Thermal Camera 316L 230VAC

INSTALLING THE CAMERA

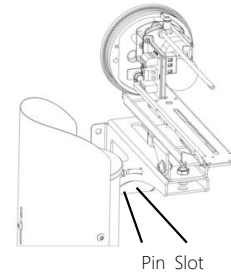
	Prior to installation and operation, carefully read all instructions the in this manual and heed all warnings.
	Unpack this equipment and handle it carefully. If the package appears to be damaged, notify the shipper immediately.
	Use the original packaging to transport the unit. Disconnect power supply before moving it. In case of returning the equipment, the original packaging must be used.
	Make sure that the installation surface can support at least four times the weight of the unit in normal operating conditions. In case of excessive external stress (e.g. vibration, strong winds or impact), the equipment may need additional means of protection.
	Proper stainless steel hardware should be carefully chosen to fasten the unit to the surfaces.
	Use caution when lifting and assembling the unit. It is recommended that non-slip protective gloves be worn during installation. The unit could bear sharp edges.
	Trying to manually force the wiper will result in damaging the device and will void the warranty.
	To maintain the IP rating of the unit, adequate cable glands must be used. The unit must be tightly closed when operating.
	For security reasons, do not install the unit in the proximity of water containers and never push objects or pour liquids into the unit. The unit can be safely used in damp environments or outdoors, as long as the connectors are properly sealed.
	Video and data cables should not share the same conduit with supply voltage cables. Whenever EMC is an issue, adequately shielded cables must be used.
	Open only the covers pointed out in this installation manual. Other covers should be open only by the manufacturer.
	This equipment has been designed to fit in harsh environments requiring little or no maintenance. Suggested inspection interval is 6 months, but extremely harsh environments may require more frequent inspection and maintenance checks. On each inspection check the O-ring seals and the eventual window wiper blade integrity. Replace them if necessary.
	Check cables, electrical connections and mounting hardware for integrity and tightness. Replace or tighten any damaged/loose part.
	Operating temperature: -20° +55° C (-4° +131° F).
	Before performing any operation, turn off the power. The installation of the unit can be performed only by qualified personnel in accordance with the regulations in force. Do not connect the unit to a supply circuit unless the installation is completed.
	Check carefully the supply voltage marked on the label. Incorrect Power Supply Voltage may damage the unit. Do not overload the terminal connection, as it may cause a fire or electrical shock hazard.
	An all-pole mains switch with an opening distance between the contacts at least 3 mm in each pole must be incorporated in the electrical installation. The switch must be equipped with protection against the fault current towards the ground (differential) and the overcurrent (magnetothermal, maximum 15A). It must be very quickly recognizable and readily accessible. A suitable blow fuse must also be installed for protection.
	For connection to the mains, use a multipolar cable having minimum 3x1,5 mm ² (15 AWG). The main cable must be at least protected by an ordinary PVC sheath.
	Fasten all the cables inside the housing with cables ties or other fixing means to avoid the electrical contact with surrounding parts in case that terminal blocks screw off.
	Electrical connections (such as plugs and cords) must be protected from potential hazardous environmental factors (e.g. foot traffic, hitting objects).
	Ensure that the unit case is properly earthed, connecting all the earth ground studs. Earth cable should be about 10mm longer than the other cables on the connector, in such way that it won't be accidentally disconnected if the cable is stretched or pulled.
	When leaving the unit unused for long periods, disconnect supply cables.

1. Open the housing

- Loosen the screw at the bottom of the external rail. The screw is fixed to a nut welded on the housing.
 - Unscrew the two M6 screws on the rear flange.
 - Slide the housing outer body away from the back flange.
- Be careful not to lose screws, washers and O-rings.

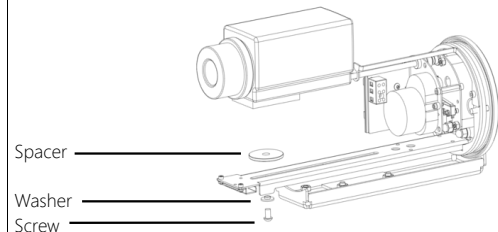


- ## 2. Hang the housing body inserting the pin into the slot on the bracket in order to perform electrical connections and maintenance tasks inside the housing.



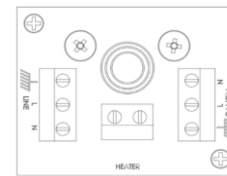
3. Install the camera

Mount the camera on the internal rail using one of the 1/4" screws supplied and the plastic washer. Use the included spacers to adjust its height position. Feed the cables through the cable glands on the rear flange and perform electrical and video connections according to the instructions in the camera installation manual.



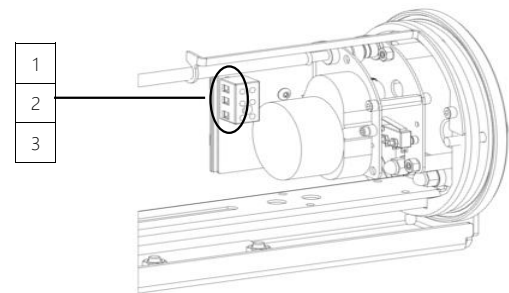
4. Only on housings with heater system

Perform the input and output (to the camera) voltage connections using the PCB installed inside the housing near the rear flange.



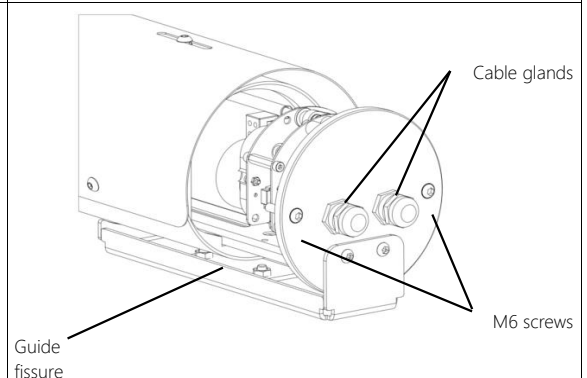
5. Only on housings with wash wiper system [24/240VAC]

Connect correct supply voltage between pin 1 (line) and pin 2 (neutral).
Connecting pin 1 (line) to pin 3, the wiper works until pin 3 is disconnected, then the wiper parks itself to its initial position.
A normally open switch, connected between pin1 and pin3, can be used for this operation.



6. Close the housing.

- Slide the housing outer body along the internal rail. The internal rail is to be inserted in the guide fissure as shown in the picture. Check the proper position of the seal in its groove on the rear flange.
- Tighten the cable glands up till an 8 Nm torque ratio.
- Tighten the two M6 on the rear flange screws to the main body.
- Fix the screw at the bottom of the external rail to the nut welded on the housing.

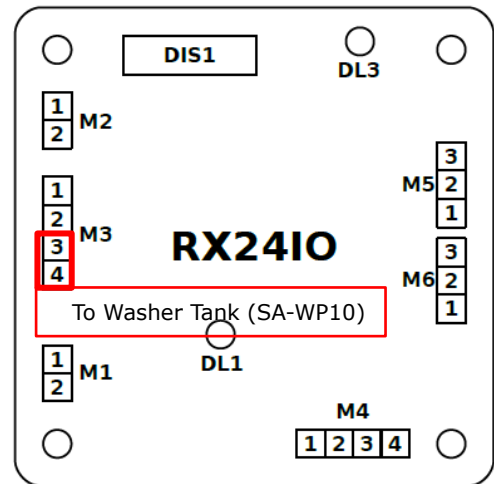


7. Connecting a external washer pump (Models with integrated IP-camera and wiper)

Models with integrated wiper are fitted with a mini telemetry receiver. Connect the washer pump to AUX 2. (M3, pin 3 & 4)

Con n.	Pi n	
M1	1	24 VAC Line
	2	24 VAC Neutral
M2	1	DC 0V
	2	DC +12V
M3	1	Aux1 - 24VAC Line
	2	Aux1 - 24VAC Neutral
	3	Aux2 - 24VAC Line
	4	Aux2 - 24VAC Neutral

Con n.	Pi n	
M4	1	Aux3 - 24VAC Line
	2	Aux3 - 24VAC Neutral
	3	Aux4 - 24VAC Line
	4	Aux4 - 24VAC Neutral
M5	1	A+ TX+
	2	B- TX-
	3	GND
M6	1	N/A
	2	N/A
	3	N/A

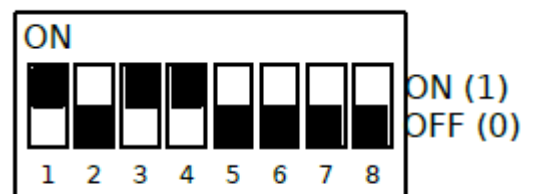


Connector	Name	Notes
M1	AC Power Input	/
M2	DC Power output	For auxiliary equipment; do not exceed 1A
M3	Auxiliary output	AC Aux1 is designed to be used with camera housing wipers; Aux2 is designed to be used with washer systems
M4	Auxiliary output	AC Spare Aux output
M5	Data (RS485)	Input Pelco D Protocol. Half duplex, 2400 baud, a 120 Ω resistor should be provided at the last device on the data line
M6	Unconnected	Reserved for future uses

8. Setting PTZ camera number (Analog models only)

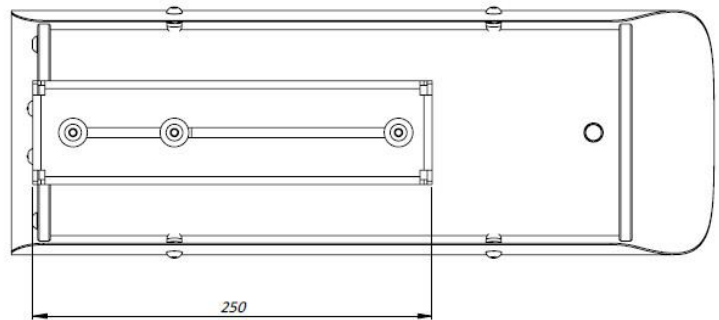
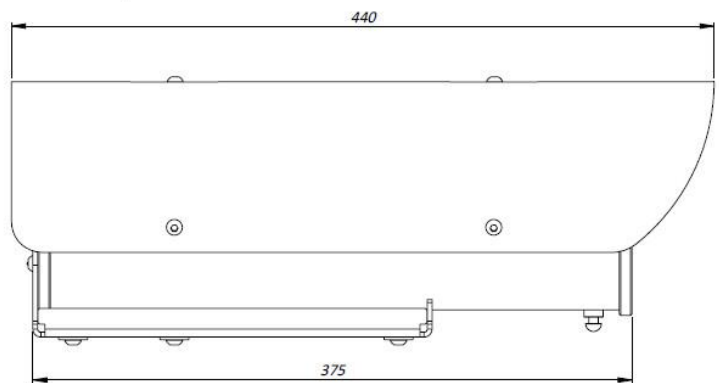
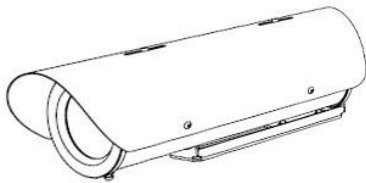
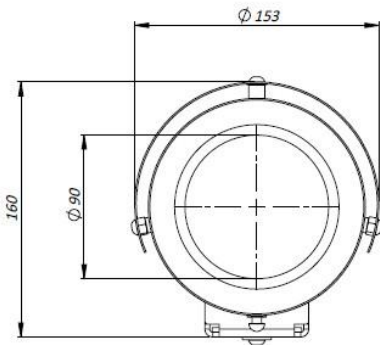
The 8 way dip-switch on the telemetry receiver (DIS1) can be used to set up the unit address (binary). When a switch is on the ON position, the relative digit has value 1, otherwise the value is 0. Switch 1 is referred to the least significant digit (20), while switch 8 is referred to the most significant digit (27).

For example, the address 13 (00001101 in binary) can be set up turning ON the switch 1, 3 and 4 (see figure).

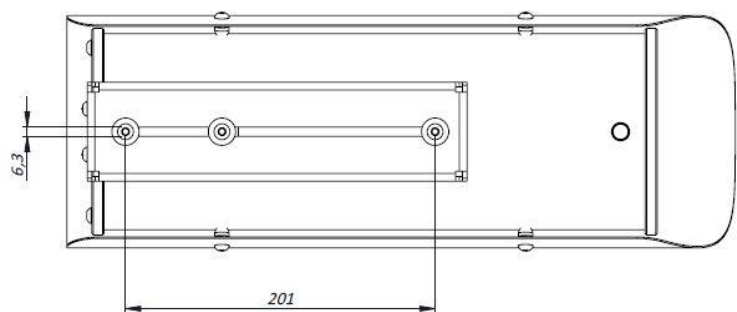
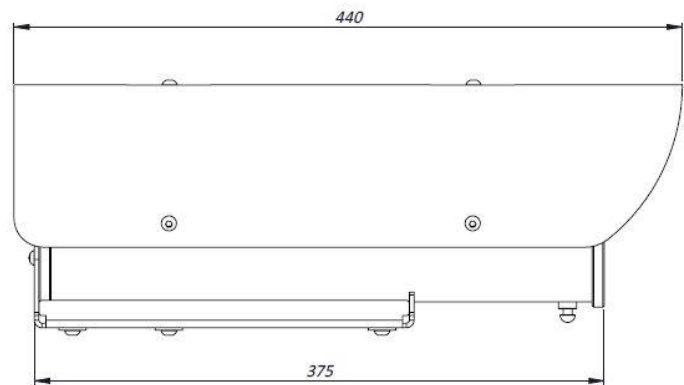
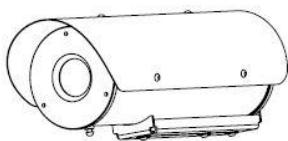
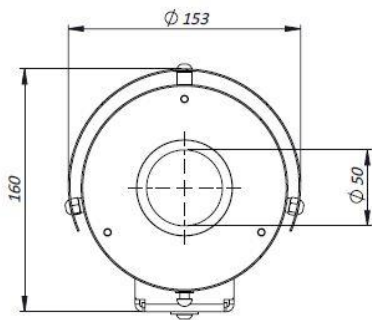


DIMENSIONS

SA-FIX:



SA-FIX T



SA-FIX W

