

SA 05 + PCU ELECTRIC ACTUATOR

ASSEMBLY AND MAINTAINANCE INSTRUCTIONS



1. DESCRIPTION

- 1.1 Electric actuator for motorising 90° turn valves.
- 1.2 The full features of this device are given in sheets FT23011.
- 1.3 Before operating this device, read the present instructions carefully.

2. GUARANTEE

- 2.1 Before any contact with our services, identify the type of actuator.
- 2.2 SECTORIEL actuators have a 12-month guarantee as of the delivery date. The parts recognized as defective by an assessment at our facility, will be replaced at our expense. Complaints generated by incorrect use or a modification of the actuator cannot be taken into account.

3. VERIFICATIONS AND ACCEPTANCE

- 3.1 At acceptance, check that:
 - the packaging is in good condition;
 - the actuator is as ordered;
 - the equipment is not damaged.
- 3.2 It is recommended to install the actuator as soon as accepted and not to leave it unused. If the equipment has to be stored, it has to be in a dry place protected from weather.

4. PRECAUTIONS FOR OPERATION

- 4.1 Before installing, make sure that the installation is completely depressurized and brought to ambient temperature.
- 4.2 Do not install this actuator in a zone classified as explosive.
- 4.3 The protection class of the actuator is IP67 for indoors or outdoors installation. Do not install this actuator in a marine environment and do not immerse it.
- 4.4 The actuator must not be electrically powered during the installation and maintenance of the valve on the pipework, and of the actuator on the valve
- 4.5 Before proceeding to the electrical connection, check the supply voltage of the actuator.
- 4.6 Do not mount the actuator in series or in parallel with other electrical motors. If need be, use relays.
- 4.7 Do not mount the actuator on valves with higher torque than the nominal torque of the actuator.

Information given as an indication only, and subject to possible modifications

	SECTORIEL S.A. 45 rue du Ruisseau 38290 SAINT QUENTIN-FALLAVIER – FRANCE Telephone: +33 4 74 94 90 70 - Fax: +33 4 74 94 13 95 www.sectoriel.com / Email : sectoriel@sectoriel.fr	Pages	1/4
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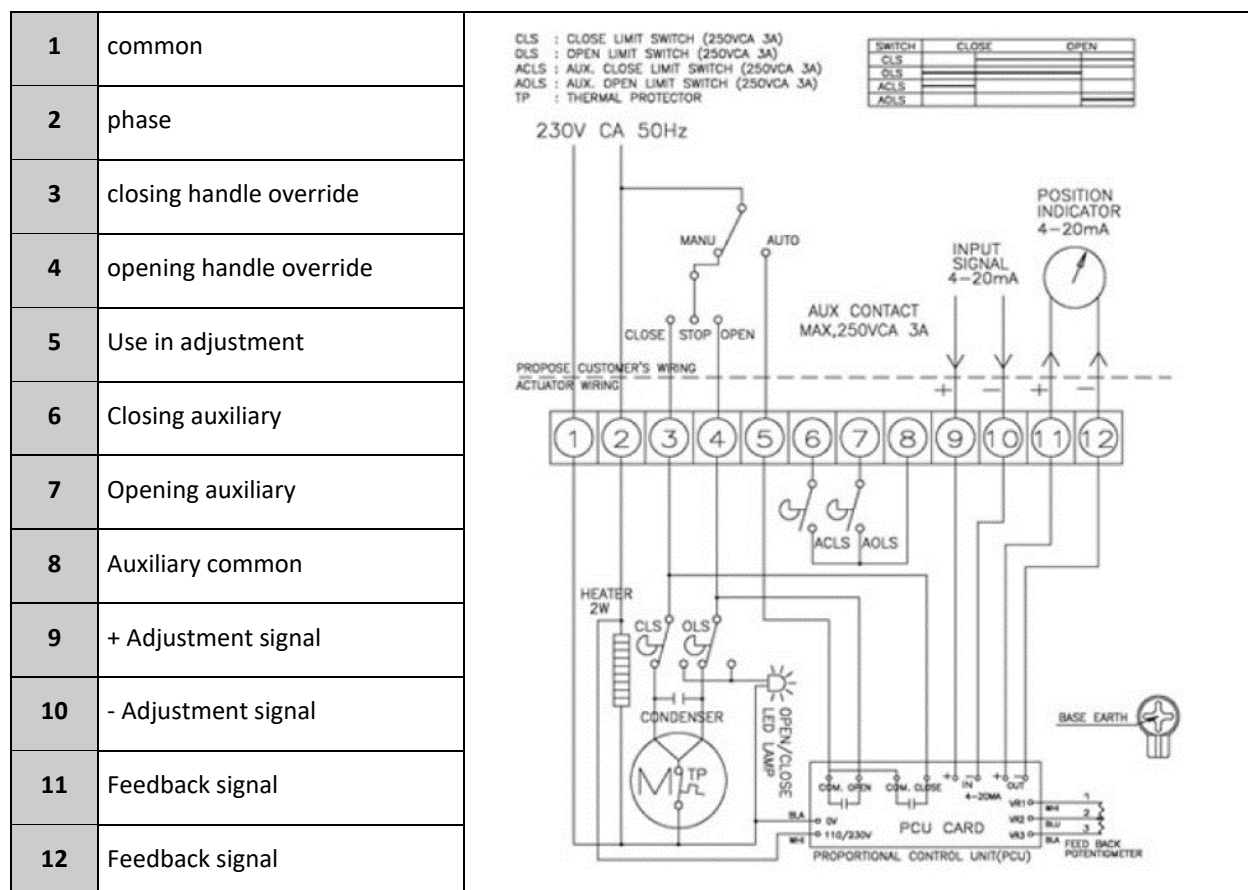
5. INSTALLATION AND OPERATION

- 5.1 Install the actuator on the valve (already done for units assembled in our workshops)
- 5.2 Perform the electrical wiring as shown in the diagram below.
- 5.3 Adjust the switch stops (already done for units assembled in our workshops).
- 5.4 View the valve's movement using the indicator light on the cover.
- 5.5 SA 05PCU actuator: to actuate the handle override, first disconnect the electrical power supply, then turn the hollow hex-head screw with an Allen key.

6. SWITCH SETTING

- 6.1 The cams are attached to the drive stem.
- 6.2 Clockwise rotation = valve closing. The micro-switch stops the actuator.
- 6.3 Anti-clockwise rotation = valve opening. The micro-switch stops the actuator.

7. WIRING DIAGRAM 230V AC 50Hz



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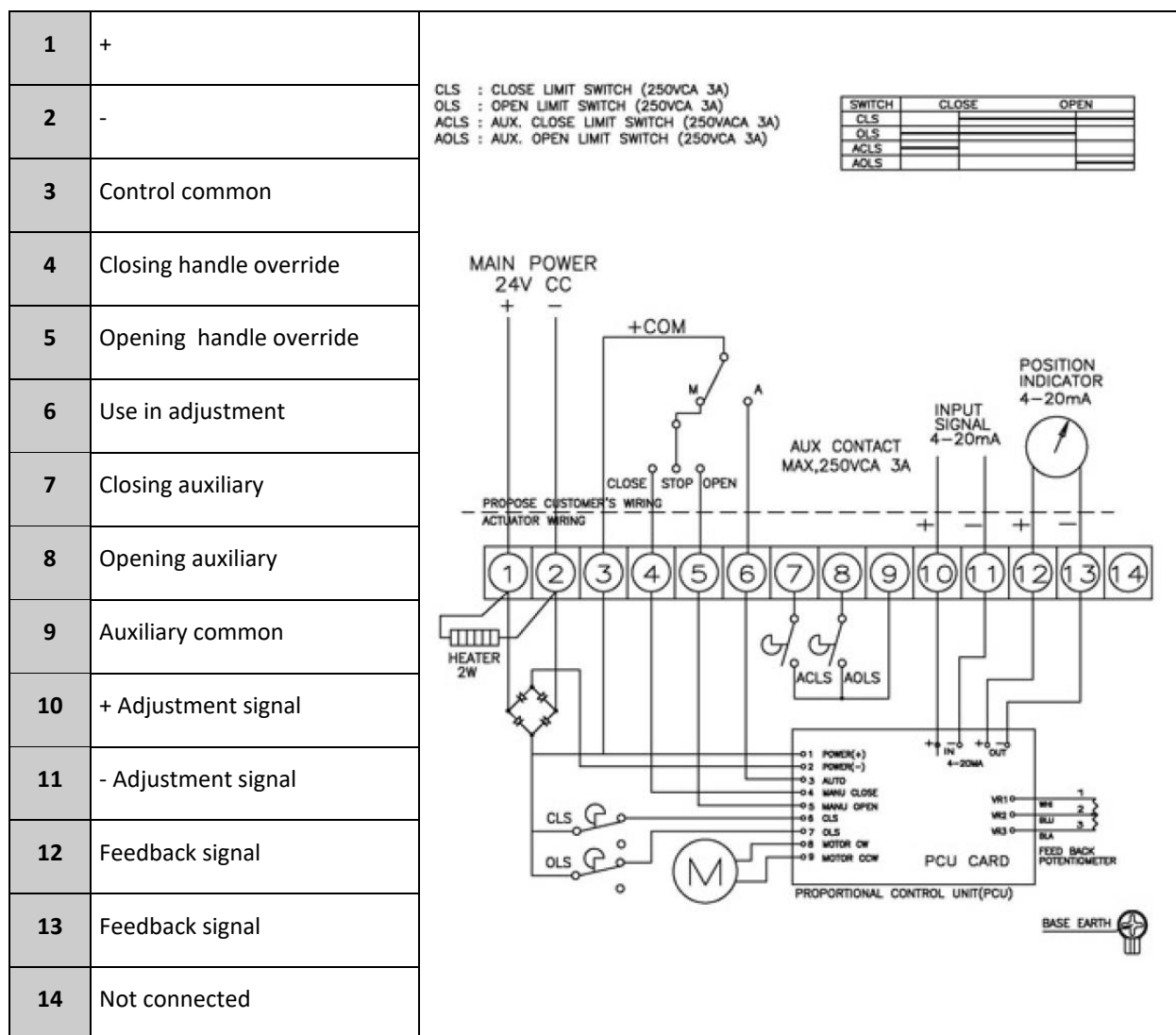
SECTORIEL S.A.
 45 rue du Ruisseau
 38290 SAINT QUENTIN-FALLAVIER – FRANCE
 Telephone: +33 4 74 94 90 70 - Fax: +33 4 74 94 13 95
www.sectoriel.com / Email : sectoriel@sectoriel.fr

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8. WIRING DIAGRAM 24V AC/DC

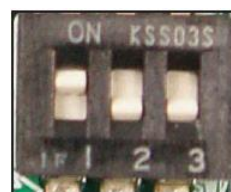


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9. PCU CIRCUIT



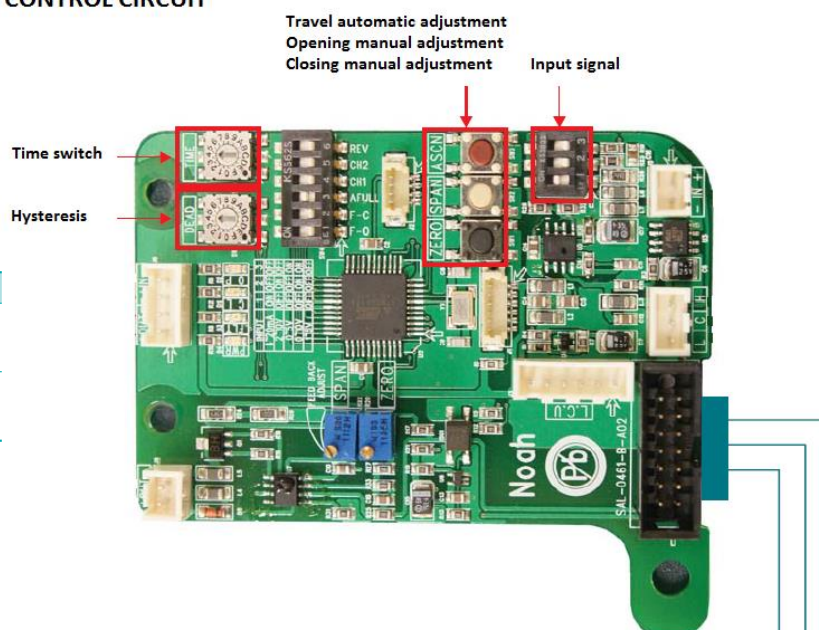
Rep.	Spec.
ZERO	Closing manual adjustment
SPAN	Opening manual adjustment
ASCN	Travel automatic adjustment

INPUT	S/W	1	2	3
4-20mA	ON	OFF	OFF	OFF
2 - 10V	OFF	ON	OFF	OFF
0 - 5V	OFF	OFF	OFF	ON
0 - 10V	OFF	ON	ON	ON
1 - 5V	OFF	OFF	OFF	OFF

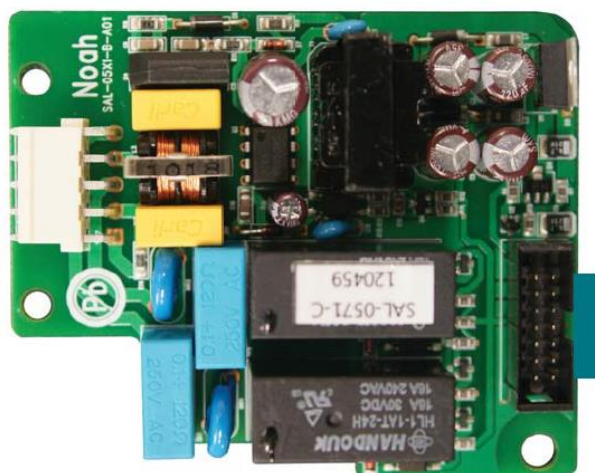
PCU CONTROL CIRCUIT



Rep.	Spec.
DEAD BAND	Hysteresis
TIME DELAY	Time switch



PCU RELAY CIRCUIT



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