AEL7 Series Safety Information

Quick Start Guide

Caution

Before commencement of any work to make the electrical connections refer to IM-P713-01 for the AEL7 or IM-P713-04 for the AEL7T Section 1 “Safety Information”.

Warning

Mains connection and commissioning of the AEL7 Series actuator requires specialist knowledge of electrical circuits and systems, and the inherent dangers. A working knowledge of linear actuators is also required.

The operator is responsible for ensuring that safe systems of operation and practice are implemented and maintained.

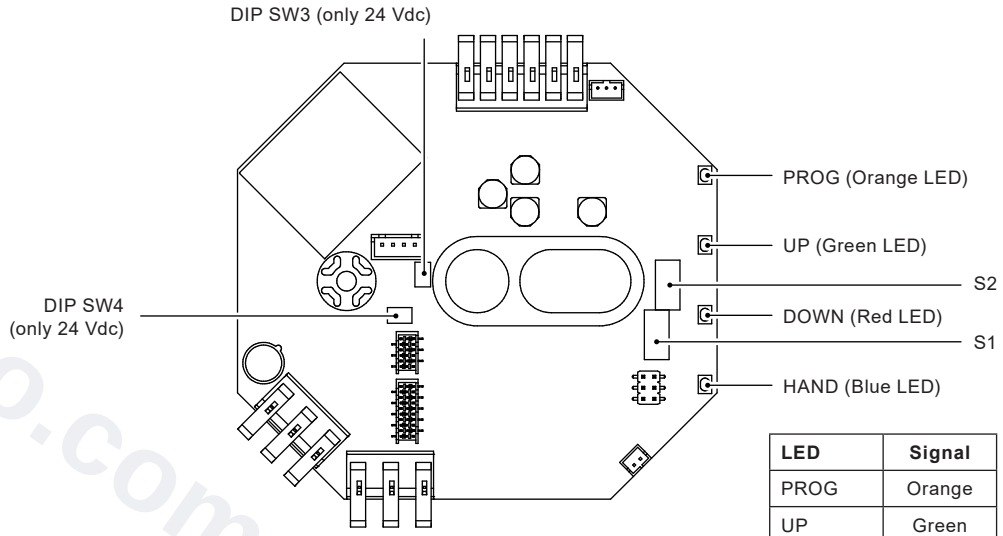
Only qualified personnel must be allowed to make the electrical power connections to the AEL7 Series actuator, and these personnel must be familiar with, and comply with the applicable health and safety standards or guidelines.

Failure to do so could result in death, severe physical injuries or material damages to the actuator, valve and associated equipment.

- Ensure that the electrical power supply is isolated.
- Safeguard against the unintentional switching on by ensuring that there is a safe system of practice in operation – e.g. lock the electrical supply isolator.
- Ensure that any installation of any new power supply is compliant with local regulations
- Check the mains connection voltage and frequency for conformity to the actuator. Details of the requirements are identified on the AEL7 Series actuator nameplate which can be found on the actuator baseplate.
- Ensure that the power supply cable is of the correct cross section for the maximum expected load. Details of the requirements are identified on the AEL7 Series actuator nameplate which can be found on the actuator baseplate, and in the Technical Information Sheet (TI-P713-02).
- Minimum cross section for the power supply cable is 1 mm². Conductors below this area can result in operational disturbances (please note maximum cable core size 1.5 mm² for 1.2 kN actuators - larger cable cores can prevent the cover from seating correctly).
- Ensure that the power supply is correctly fused for the maximum expected load. Details of the requirements for each AEL7 Series actuator can be found in IM-P713-01 or IM-P713-04.

Information

Terminal diagram (and AEL7T switch setting information) can be found inside the cover of the actuator.



LED	Signal
PROG	Orange
UP	Green
DOWN	Red
HAND	Blue

Commissioning with auto tune function

Actuator must be in middle position (not at end positions)

1) Set DIP S2.1 to ON -> PROG-LED flashing
2) Press PROG button for >3 s
3) Press HAND button to start auto tune function

Auto tune function can be stopped by pressing HAND button.

Actuator move in open direction (actuator spindle retracting) until actuator stops.
Actuator moves in down direction (actuator spindle extracting) until actuator stops.
When auto tune function was successful PROG-LED is flashing

3) Set DIP S2.1 to OFF

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Declaration of conformity - UKCA

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DECLARATION OF CONFORMITY

Apparatus model/Product: **Electric Linear Actuators:**
AEL7 Series

Name and address of the manufacturer or his authorised representative: **Spirax Sarco Ltd**,
Runnings Road
Cheltenham
GL51 9NQ
United Kingdom

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant statutory requirements of:

SI 2016 No.1101 * **The Electrical Equipment (Safety) Regulations 2016**

SI 2016 No.1091 * **The Electromagnetic Compatibility Regulations 2016**

SI 2008 No.1597 * **The Supply of Machinery (Safety) Regulations 2008**

*(*As amended by EU Exit Regulations)*

References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

SI 2016 No.1101 * EN 61010-1:2010+A1:2019

SI 2016 No.1091 * EN 61000-6-2:2005
EN 61000-6-4:2007 + A1:2011

SI 2008 No.1597 * EN 60204-1:2018
EN ISO 12100:2010

Additional information:

Signed for and on behalf of: Spirax Sarco Ltd,

(signature):

(name, function): N Morris
Compliance Manager
Steam Business Development Engineering

(place and date of issue): Cheltenham 26 September 2022

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Declaration of conformity - EU

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EU DECLARATION OF CONFORMITY

Apparatus model/Product: **Electric Linear Actuators:**
AEL7 Series

Name and address of the manufacturer or his authorised representative: **Spirax Sarco Ltd**,
Runnings Road
Cheltenham
GL51 9NQ
United Kingdom

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/35/EU Low Voltage Directive
2014/30/EU EMC Directive
2006/42/EC Machinery Directive

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

(Low Voltage Directive) EN 61010-1:2010+A1:2019

(EMC Directive) EN 61000-6-2:2005
EN 61000-6-4:2007 + A1:2011

(Machinery Directive) EN 60204-1:2018
EN ISO 12100:2010

Signed for and on behalf of: Spirax Sarco Ltd,

(signature):

(name, function): N Morris
Compliance Manager, Steam Business Development Engineering

(place and date of issue): Cheltenham
2022-09-26

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