



Actuator LA14

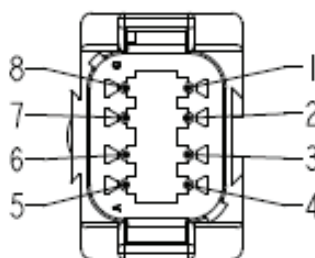
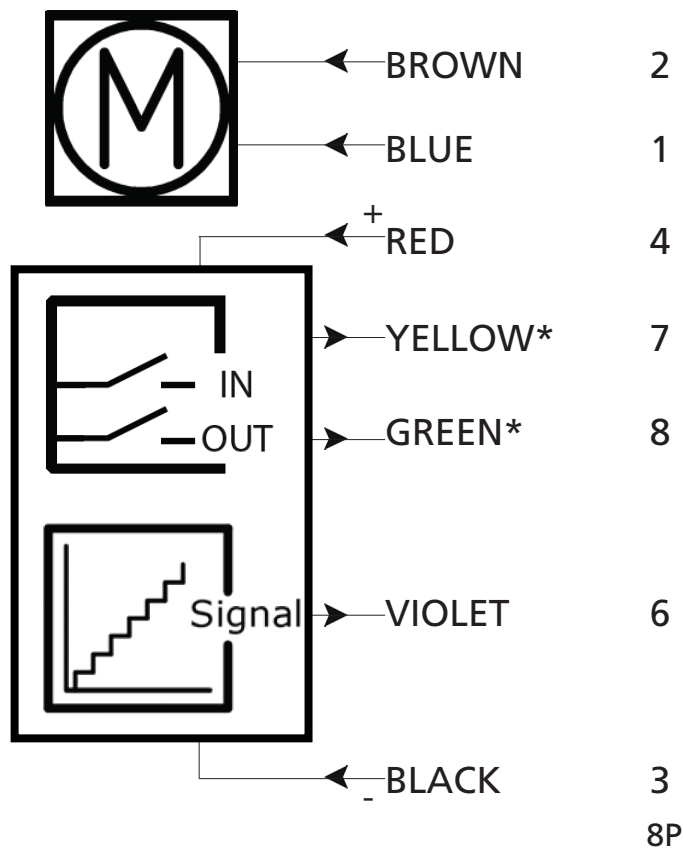
Endstop signals and absolute positioning - Analogue feedback

*Connection diagram*

# Connection diagram

14XXXXXXXXX0A0X0X=XX1XXXXXXXXXX

Compliant with:




\*YELLOW/GREEN: Endstop signals out are NOT potential free



**Tip:** If you wish to use the endstop signals, you will have to keep power on the brown, blue, red and black wires, otherwise the signal will be lost.

# I/O Specifications

| Input/Output | Specification  | Comments   |
|--------------|--|--|
| Description  | The actuator can be equipped with electronic circuit that gives an analogue feedback signal when the actuator moves.<br>See connection diagram, figure above |   |
| Brown        | 12-24 VDC (+/-)<br><br>12 V ± 20%<br>24 V ± 10%  | To extend actuator:<br>Connect Brown to positive<br><br>To retract actuator:<br>Connect Brown to negative  |
| Blue         | Under normal conditions:<br>12 V, max. 5 A depending on load<br>24 V, max. 2.5 A depending on load   | To extend actuator:<br>Connect Blue to negative<br><br>To retract actuator:<br>Connect Blue to positive  |
| Red          | Signal power supply (+) 12-24 VDC  | Current consumption:<br>Max. 60 mA, also when the actuator is not running  |
| Black        | Signal power supply GND (-)  |  |
| Green        | Endstop signal out   | Output voltage min. $V_{IN} - 2\text{ V}$<br>Source current max. 100 mA<br>NOT potential free  |
| Yellow       | Endstop signal in  |  |
| Violet       | Analogue feedback<br>0-10 V (Option A)<br>0.5-4.5 V (Option B)<br>Special (Option F)   | Tolerances +/- 0.2 V<br>Max. current output: 1 mA<br>Ripple max. 200 mV<br>Transaction delay 20 ms<br>Linear feedback 0.5%                               |
|              | 4-20 mA (Option C)<br>Special (Option F)   | Tolerances +/- 0.2 mA<br>Transaction delay 20 ms<br>Linear feedback 0.5%<br>Output: Source<br>Serial resistance:<br>12V max. 300 ohm<br>24V max. 900 ohm |
|              | For all analogue feedbacks it is recommendable to have the actuator to activate its limit switches on a regular basis, to ensure more precise positioning    |  |
| White        | Not to be connected  |  |

---

**Terms of use**

LINAK® takes great care in providing accurate and up-to-date information on its products. However, the user is responsible for determining the suitability of LINAK® products for a specific application.

Due to continuous development, LINAK products are subject to frequent modifications and changes. LINAK reserves the rights to conduct modifications, updates, and changes without any prior notice. For the same reason, LINAK cannot guarantee the correctness and actual status of imprinted information on its products.

LINAK uses its best efforts to fulfill orders. However, for the reasons mentioned above, LINAK cannot guarantee availability of any particular product at any given time. LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or in other written material created and produced by LINAK, LINAK subsidiaries, or LINAK affiliates.

All sales are subject to the 'Standard Terms of Sale and Delivery for LINAK A/S'. Please contact LINAK for a copy.