TECHLINE®
IMPROVING FLEXIBILITY

Actuator LA36
With CANopen 0-point and Split Supply
Connection diagram

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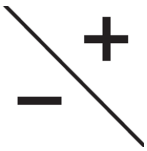
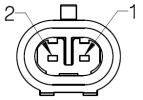
Connection diagram

36XXXXXXXX18XX-XXXXXXXXXXXX0



		Power
24/48 VDC +	**BROWN**	**2**
GND -	**BLUE**	**1**

AMP



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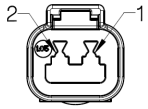
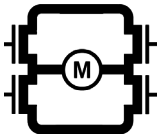


		Signal
Split power supply	**ORANGE**	**5**
Digital input	**RED**	**1**
Digital input	**BLACK**	**2**
Not to be connected	**LIGHT BLUE**	**6**
Bus	**YELLOW**	**3**
Bus	**GREEN**	**4**
Not to be connected	**GREY**	**0**
Data	**VIOLET**	**7**
Data GND	**WHITE**	**8**



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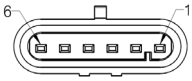

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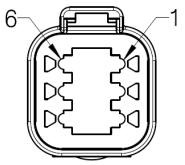

I/O specifications

<table>
<tr><th>Input/Output</th><th>Specification</th><th>Comments</th></tr>
<tr><td>Description</td><td>Compatible with the CiA 301 standard.
Using CANopen messages to
command movement, setting param¬eters and to deliver feedback from the actuator.
Actuator support LSS</td><td>CANopen</td></tr>
<tr><td>Brown
Connect to positive</td><td>12 VDC, current limit 30 A
24 VDC, current limit 20 A
48 VDC, current limit 8 A
<table>
<tr><th>Vsup</th><th>Vmin</th><th>Vmax</th><th></th></tr>
<tr><td rowspan="2">12 V</td><td>10,5 V</td><td>16 V</td><td>Motor running</td></tr>
<tr><td>6 V</td><td>16 V</td><td>Motor not running
CAN communication possible</td></tr>
<tr><td rowspan="2">24 V</td><td>18 V</td><td>32 V</td><td>Motor running</td></tr>
<tr><td>10 V</td><td>32 V</td><td>Motor not running
CAN communication possible</td></tr>
<tr><td rowspan="2">48 V</td><td>34 V</td><td>58 V</td><td>Motor running</td></tr>
<tr><td>24 V</td><td>60 V</td><td>Motor not running
CAN communication possible</td></tr>
</table></td><td rowspan="3">Note: Do not swap the power supply polarity on the brown and blue wires!
The PCB is coupled to the housing through a capacitor.
Current limit levels can be adjusted through Actuator Connect®.
If the temperature drops below 0 °C, all current limits will automatically increase with a factor 2.</td></tr>
<tr><td>Blue
Connect to negative</td><td>- (GND)</td></tr>
<tr><td>Orange</td><td>Split supply:
24 VDC with ≈28 mA current consumption
48 VDC with ≈16 mA current consumption
Connect to positive. The split supply uses the common GND from the power supply</td><td>Split supply is for operational power only.</td></tr>
<tr><td>Red</td><td>Extends the actuator</td><td rowspan="2">The signal becomes active at:
> 67% of V_{IN}
The signal becomes inactive at:
< 33% of V_{IN}
Input current: 10 mA</td></tr>
<tr><td>Black</td><td>Retracts the actuator</td></tr>
<tr><td>Light Blue</td><td>Not to be used</td><td>Not to be used</td></tr>
</table>

Input/Output	Specification	Comments
Green	CAN_L	CANopen assumes a physical layer according to ISO 11898-2. Speed: Autobaud up to 500 kbps Max bus length @ 125 kbps: 500 meters Max bus length @ 250 kbps: 250 meters Max bus length @ 500 kbps: 100 meters Max stub length @ 125 kbps: 22 meters Max stub length @ 250 kbps: 11 meters Max stub length @ 500 kbps: 5,5 meters Max node count: 127 Wiring: Unshielded twisted pair
Yellow	CAN_H	
Violet	Service interface	Only Actuator Connect® can be used as service interface. Use grey adapter cable
White	Service interface GND	