



ASYNCHROUS ACTUATOR CONTROL BOXES | 1 - 4 actuators

DDLA SERIES

We offer a broad range of high quality actuator control boxes and hand controls in standard and customized configurations. Our customer-centric approach makes us the ideal supplier for your project, especially to instrument and apparatus builders. In addition, we offer immediate delivery, thanks to always having a high number of motors in stock.

Customizations include:

- ✓ Customized harness
- ✓ Winding configuration
- ✓ Shaft configuration
- ✓ And more...

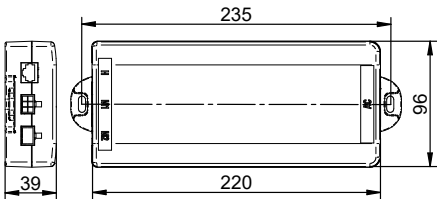
TABLE OF CONTENTS

NAME	NO. OF ACTUATORS	COMPATIBLE CONTROLLER	COMPATIBLE ACTUATORS	INPUT VOLTAGE V	PAGE
DDLA-1	1	HDL-DDLA-1	Transmotec DLA and DLB series	120 to 230	1
DDLA-2	2	HDL-DDLA-2	Transmotec DLA and DLB series	120 to 230	2
DDLA-3	3	HDL-DDLA-3	Transmotec DLA and DLB series	120 to 230	3
DDLA-4	4	HDL-DDLA-4	Transmotec DLA and DLB series	120 to 230	4
DDLA-24-1	1	HDL-DDLA-24-1	Transmotec DLA and DLB series	24	5
DDLA-24-2	2	HDL-DDLA-24-2	Transmotec DLA and DLB series	24	6
DDLA-24-3	3	HDL-DDLA-24-3	Transmotec DLA and DLB series	24	7
DDLA-24-4	4	HDL-DDLA-24-4	Transmotec DLA and DLB series	24	8

DDLA-1 | ASYNCHRONOUS ACTUATOR CONTROL BOX



DRAWING
(mm)



PHOTO



MODEL NO. DESIGNATION

DDLA

-

Number of actuators

Example: DDLA-1

ACCESSORIES



ACTUATOR CONTROL BOX DATA			C
Mode	Asynchronous		
Number of actuators	1		
Compatible controller ¹	HDL-DDLA-1		
Compatible actuators ²	Transmotec linear actuators DLA series and DLB series		
Output voltage	V	24	
Output current	A	2.4	
Overload protection current	A	5.5	
Duty cycle ³	%	10	
Input voltage range	V	100 to 240	
Input power frequency	Hz	50 60	
Power cable ⁴	IEC C7		
Power cable length	mm	3000	
CE label	Yes		
Operating temperature	°C	5 to 40	
IP rating	IP20		
Weight	kg	0.78	
Actuator port	Molex 45732-0001		
Controller port	10P10C (RJ50)		
Body materials	Fireproof ABS (FR-ABS)		
Color	Black		

OPERATION GUIDANCE ASYNCHRONOUS ACTUATOR CONTROL BOXES

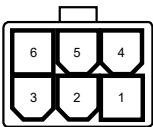
1. Connect the actuator/s adapter cable between the control box and the actuator.
2. Press and continuously hold down the M button on the controller for actuator/s operation.
3. The actuator/s will stop at any position when the controller button is released.
4. The actuator/s will stop automatically by its internal limit switches at end position.
5. Simultaneous operation of several actuators is possible.

NOTES

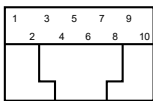
1. Sold separately. See www.transmotec.com.
2. Standard actuators are sold with flying wires but adapter cable is included. Actuators with connectors are sold on demand.
3. Max. 2 min. continuous operation in 20 min.
4. Plugs EU CEE 7/7 and US NEMA 5/15.

PIN LAYOUT

Molex 45732-0001 Jack



10P10C (RJ50) Jack



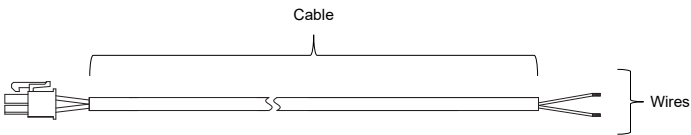
PIN CONFIGURATION MOLEX 45732-0001

PIN	FUNCTION
1	-
2	-
3	M-
4	-
5	-
6	M+

PIN CONFIGURATION 10P10C (RJ50)

PIN	FUNCTION
1	-
2	5 V
3	-
4	-
5	1 Up M1
6	-
7	-
8	1 Down M1
9	-
10	-

ACTUATOR ADAPTER CABLE LAYOUT



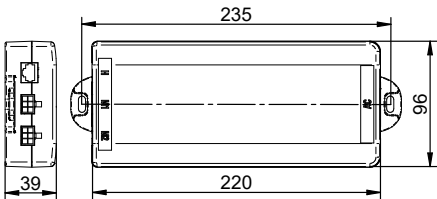
ACTUATOR ADAPTER CABLE DATA

Cable length	mm	150	
Cable diameter	mm	5	
Wires	AWG20		

DDLA-2 | ASYNCHRONOUS ACTUATOR CONTROL BOX



DRAWING
(mm)



PHOTO



MODEL NO. DESIGNATION

DDLA

-

Number of actuators

Example: DDLA-2

ACCESSORIES



ACTUATOR CONTROL BOX DATA			C
Mode	Asynchronous		
Number of actuators	2		
Compatible controller ¹	HDL-DDLA-2		
Compatible actuators ²	Transmotec linear actuators DLA series and DLB series		
Output voltage	V	24	
Output current	A	2.4	
Overload protection current	A	5.5	
Duty cycle ³	%	10	
Input voltage range	V	100 to 240	
Input power frequency	Hz	50 60	
Power cable ⁴	IEC C7		
Power cable length	mm	3000	
CE label	Yes		
Operating temperature	°C	5 to 40	
IP rating	IP20		
Weight	kg	0.81	
Actuator port	Molex 45732-0001		
Controller port	10P10C (RJ50)		
Body materials	Fireproof ABS (FR-ABS)		
Color	Black		

OPERATION GUIDANCE ASYNCHRONOUS ACTUATOR CONTROL BOXES

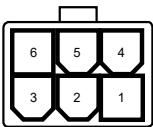
1. Connect the actuator/s adapter cable between the control box and the actuator.
2. Press and continuously hold down the M button on the controller for actuator/s operation.
3. The actuator/s will stop at any position when the controller button is released.
4. The actuator/s will stop automatically by its internal limit switches at end position.
5. Simultaneous operation of several actuators is possible.

NOTES

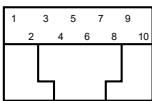
1. Sold separately. See www.transmotec.com.
2. Standard actuators are sold with flying wires but adapter cable is included. Actuators with connectors are sold on demand.
3. Max. 2 min. continuous operation in 20 min.
4. Plugs EU CEE 7/7 and US NEMA 5/15.

PIN LAYOUT

Molex 45732-0001 Jack



10P10C (RJ50) Jack



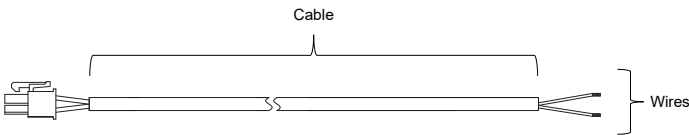
PIN CONFIGURATION MOLEX 45732-0001

PIN	FUNCTION
1	-
2	-
3	M-
4	-
5	-
6	M+

PIN CONFIGURATION 10P10C (RJ50)

PIN	FUNCTION
1	-
2	5 V
3	-
4	2 Up M2
5	1 Up M1
6	-
7	2 Down M2
8	1 Down M1
9	-
10	-

ACTUATOR ADAPTER CABLE LAYOUT



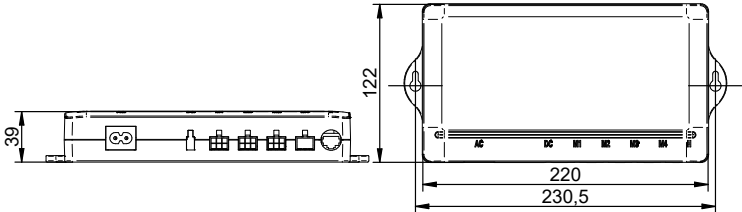
ACTUATOR ADAPTER CABLE DATA

Cable length	mm	150	
Cable diameter	mm	5	
Wires	AWG20		

DDLA-3 | ASYNCHRONOUS ACTUATOR CONTROL BOX



DRAWING
(mm)



PHOTO



MODEL NO. DESIGNATION

DDLA

-

Number of actuators

Example: DDLA-3

ACCESSORIES

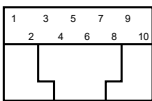
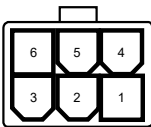


ACTUATOR CONTROL BOX DATA			C
Mode	Asynchronous		
Number of actuators	3		
Compatible controller ¹	HDL-DDLA-3		
Compatible actuators ²	Transmotec linear actuators DLA series and DLB series		
Output voltage	V	24	
Output current	A	2.4	
Overload protection current	A	N/A	
Duty cycle ³	%	10	
Input voltage range	V	100 to 240	
Input power frequency	Hz	50 60	
Power cable ⁴	IEC C7		
Power cable length	mm	3000	
CE label	Yes		
Operating temperature	°C	5 to 40	
IP rating	IP20		
Weight	kg	0.79	
Actuator port	Molex 45732-0001		
Controller port	10P10C (RJ50)		
Body materials	Fireproof ABS (FR-ABS)		
Color	Black		

PIN LAYOUT

Molex 45732-0001 Jack

10P10C (RJ50) Jack



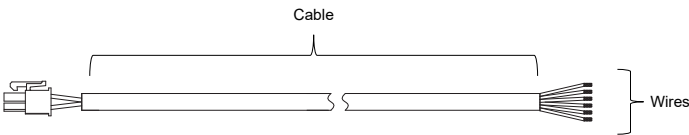
PIN CONFIGURATION MOLEX 45732-0001

PIN	FUNCTION
1	-
2	-
3	M-
4	-
5	-
6	M+

PIN CONFIGURATION 10P10C (RJ50)

PIN	FUNCTION
1	-
2	5 V
3	3 Up M3
4	2 Up M2
5	1 Up M1
6	3 Down M3
7	2 Down M2
8	1 Down M1
9	-
10	-

ACTUATOR ADAPTER CABLE LAYOUT



OPERATION GUIDANCE ASYNCHRONOUS ACTUATOR CONTROL BOXES

1. Connect the actuator/s adapter cable between the control box and the actuator.
2. Press and continuously hold down the M button on the controller for actuator/s operation.
3. The actuator/s will stop at any position when the controller button is released.
4. The actuator/s will stop automatically by its internal limit switches at end position.
5. Simultaneous operation of several actuators is possible.

NOTES

1. Sold separately. See www.transmotec.com.
2. Standard actuators are sold with flying wires but adapter cable is included. Actuators with connectors are sold on demand.
3. Max. 2 min. continuous operation in 20 min.
4. Plugs EU CEE 7/7 and US NEMA 5/15.

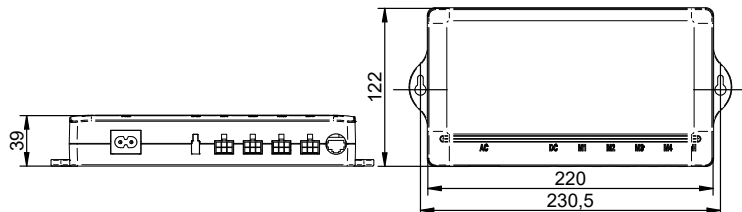
ACTUATOR ADAPTER CABLE DATA

Cable length	mm	150	
Cable diameter	mm	7	
Wires	AWG20 AWG24		

DDLA-4 | ASYNCHRONOUS ACTUATOR CONTROL BOX



DRAWING
(mm)



PHOTO



MODEL NO. DESIGNATION

DDLA - Number of actuators

Example: DDLA-4

ACCESSORIES



ACTUATOR CONTROL BOX DATA

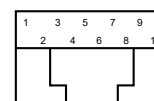
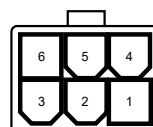
C

Mode	Asynchronous	
Number of actuators	4	
Compatible controller ¹	HDL-DDLA-4	
Compatible actuators ²	Transmotec linear actuators DLA series and DLB series	
Output voltage	V	24
Output current	A	2.4
Overload protection current	A	N/A
Duty cycle ³	%	10
Input voltage range	V	100 to 240
Input power frequency	Hz	50 60
Power cable ⁴	IEC C7	
Power cable length	mm	3000
CE label	Yes	
Operating temperature	°C	5 to 40
IP rating	IP20	
Weight	kg	0.81
Actuator port	Molex 45732-0001	
Controller port	10P10C (RJ50)	
Body materials	Fireproof ABS (FR-ABS)	
Color	Black	

PIN LAYOUT

Molex 45732-0001 Jack

10P10C (RJ50) Jack



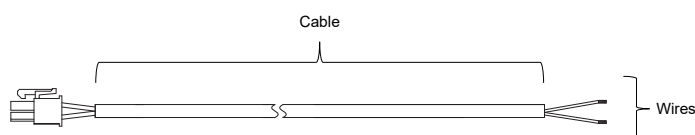
PIN CONFIGURATION MOLEX 45732-0001

PIN	FUNCTION
1	-
2	-
3	M-
4	-
5	-
6	M+

PIN CONFIGURATION 10P10C (RJ50)

PIN	FUNCTION
1	4 Up M4
2	5 V
3	3 Up M3
4	2 Up M2
5	1 Up M1
6	3 Down M3
7	2 Down M2
8	1 Down M1
9	-
10	4 Down M4

ACTUATOR ADAPTER CABLE LAYOUT



OPERATION GUIDANCE ASYNCHRONOUS ACTUATOR CONTROL BOXES

1. Connect the actuator/s adapter cable between the control box and the actuator.
2. Press and continuously hold down the M button on the controller for actuator/s operation.
3. The actuator/s will stop at any position when the controller button is released.
4. The actuator/s will stop automatically by its internal limit switches at end position.
5. Simultaneous operation of several actuators is possible.

NOTES

1. Sold separately. See www.transmotec.com.
2. Standard actuators are sold with flying wires but adapter cable is included. Actuators with connectors are sold on demand.
3. Max. 2 min. continuous operation in 20 min.
4. Plugs EU CEE 7/7 and US NEMA 5/15.

ACTUATOR ADAPTER CABLE DATA

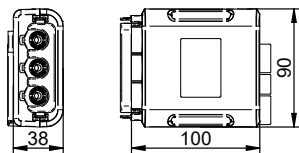
C

Cable length	mm	150
Cable diameter	mm	5
Wires	AWG24	

DDLA-24-1 | ASYNCHRONOUS ACTUATOR CONTROL BOX



DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

DDLA - 24 - Number of actuators

Example: DDLA-24-1

ACCESSORIES



ACTUATOR CONTROL BOX DATA

C

Mode	Asynchronous	
Number of actuators	1	
Compatible controller ¹	HDL-DDLA-24-1	
Compatible actuators ²	Transmotec linear actuators DLA series and DLB series	
Output voltage	V	24
Output current	A	3
Overload protection current ³	A	3
Duty cycle ⁴	%	10
Input voltage	V	24
Power cable	DIN 41529	
Power cable length	mm	1000
CE label ⁵	Yes	
Operating temperature	°C	5 to 40
IP rating	IP42	
Weight	kg	0.2
Actuator port ⁶	4-pin DIN 41524	
Controller port ⁷	5-pin DIN 41524	
Body materials	Fireproof ABS (FR-ABS)	
Color	Black	

OPERATION GUIDANCE ASYNCHRONOUS ACTUATOR CONTROL BOXES

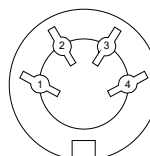
1. Connect the actuator/s adapter cable between the control box and the actuator.
2. Press and continuously hold down the M button on the controller for actuator/s operation.
3. The actuator/s will stop at any position when the controller button is released.
4. The actuator/s will stop automatically by its internal limit switches at end position.
5. Simultaneous operation of several actuators is possible.

NOTES

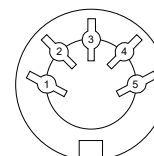
1. Sold separately. See www.transmotec.com.
2. Standard actuators are sold with flying wires but adapter cable is included. Actuators with connectors are sold on demand.
3. Nominal current, PTC-based material (positive temperature coefficient).
4. Max. 2 min. continuous operation in 20 min.
5. EMC Directive 2014/30/EU and 2004/108/EC
6. 72°, 216° Jack.
7. 45°, 180° Jack.

PIN LAYOUT

4-PIN DIN 41524



5-PIN DIN 41524



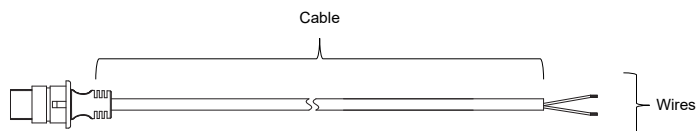
PIN CONFIGURATION 4-PIN DIN 41524

PIN	FUNCTION
1	-
2	-
3	M-
4	M+

PIN CONFIGURATION 5-PIN DIN 41524

PIN	FUNCTION
1	M2 Down
2	Vcc
3	M2 Up
4	M1 Down
5	M1 Up

ACTUATOR ADAPTER CABLE LAYOUT



ACTUATOR ADAPTER CABLE DATA

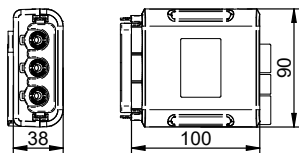
C

Cable length	mm	150
Cable diameter	mm	5
Wires	AWG20	

DDLA-24-2 | ASYNCHRONOUS ACTUATOR CONTROL BOX



DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

DDLA - 24 - Number of actuators

Example: DDLA-24-2

ACCESSORIES



ACTUATOR CONTROL BOX DATA

C

Mode	Asynchronous	
Number of actuators	2	
Compatible controller ¹	HDL-DDLA-24-2	
Compatible actuators ²	Transmotec linear actuators DLA series and DLB series	
Output voltage	V	24
Output current	A	3
Overload protection current ³	A	3
Duty cycle ⁴	%	10
Input voltage	V	24
Power cable	DIN 41529	
Power cable length	mm	1000
CE label ⁵	Yes	
Operating temperature	°C	5 to 40
IP rating	IP42	
Weight	kg	0.22
Actuator port ⁶	4-pin DIN 41524	
Controller port ⁷	5-pin DIN 41524	
Body materials	Fireproof ABS (FR-ABS)	
Color	Black	

OPERATION GUIDANCE ASYNCHRONOUS ACTUATOR CONTROL BOXES

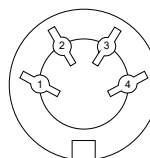
1. Connect the actuator/s adapter cable between the control box and the actuator.
2. Press and continuously hold down the M button on the controller for actuator/s operation.
3. The actuator/s will stop at any position when the controller button is released.
4. The actuator/s will stop automatically by its internal limit switches at end position.
5. Simultaneous operation of several actuators is possible.

NOTES

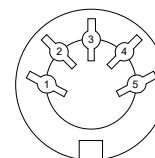
1. Sold separately. See www.transmotec.com.
2. Standard actuators are sold with flying wires but adapter cable is included. Actuators with connectors are sold on demand.
3. Nominal current, PTC-based material (positive temperature coefficient).
4. Max. 2 min. continuous operation in 20 min.
5. EMC Directive 2014/30/EU and 2004/108/EC
6. 72°, 216° Jack.
7. 45°, 180° Jack.

PIN LAYOUT

4-PIN DIN 41524



5-PIN DIN 41524



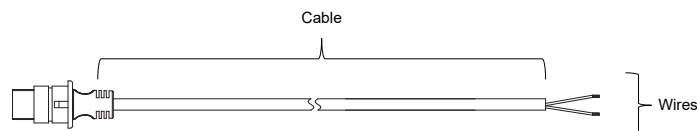
PIN CONFIGURATION 4-PIN DIN 41524

PIN	FUNCTION
1	-
2	-
3	M-
4	M+

PIN CONFIGURATION 5-PIN DIN 41524

PIN	FUNCTION
1	M2 Down
2	Vcc
3	M2 Up
4	M1 Down
5	M1 Up

ACTUATOR ADAPTER CABLE LAYOUT



ACTUATOR ADAPTER CABLE DATA

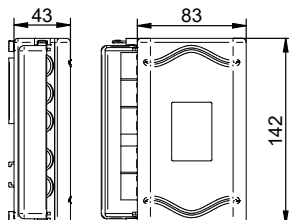
C

Cable length	mm	150
Cable diameter	mm	5
Wires	AWG20	

DDLA-24-3 | ASYNCHRONOUS ACTUATOR CONTROL BOX



DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

DDLA - 24 - Number of actuators

Example: DDLA-24-3

ACCESSORIES



ACTUATOR CONTROL BOX DATA

C

Mode	Asynchronous	
Number of actuators	3	
Compatible controller ¹	HDL-DDLA-24-3	
Compatible actuators ²	Transmotec linear actuators DLA series and DLB series	
Output voltage	V	24
Output current	A	3
Overload protection current	A	N/A
Duty cycle ³	%	10
Input voltage	V	24
Power cable	DIN 41529	
Power cable length	mm	1000
CE label ⁴	Yes	
Operating temperature	°C	5 to 40
IP rating	IP42	
Weight	kg	0.34
Actuator port ⁵	4-pin DIN 41524	
Controller port ⁶	8-pin DIN 45326	
Body materials	Fireproof ABS (FR-ABS)	
Color	Black	

OPERATION GUIDANCE ASYNCHRONOUS ACTUATOR CONTROL BOXES

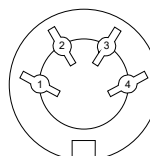
1. Connect the actuator/s adapter cable between the control box and the actuator.
2. Press and continuously hold down the M button on the controller for actuator/s operation.
3. The actuator/s will stop at any position when the controller button is released.
4. The actuator/s will stop automatically by its internal limit switches at end position.
5. Simultaneous operation of several actuators is possible.

NOTES

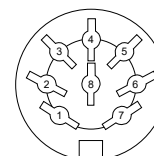
1. Sold separately. See www.transmotec.com.
2. Standard actuators are sold with flying wires but adapter cable is included. Actuators with connectors are sold on demand.
3. Max. 2 min. continuous operation in 20 min.
4. EMC Directive 2014/30/EU and 2004/108/EC
5. 72°, 216° Jack.
6. 45°, 270° Jack.

PIN LAYOUT

4-PIN DIN 41524



8-pin DIN 45326



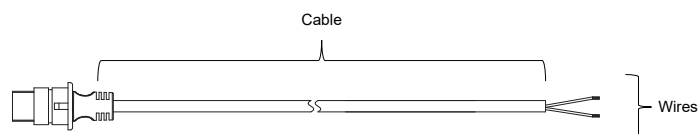
PIN CONFIGURATION 4-PIN DIN 41524

PIN	FUNCTION
1	-
2	-
3	M-
4	M+

PIN CONFIGURATION 8-PIN DIN 45326

PIN	FUNCTION
1	M3 Down
2	M2 Down
3	Vcc
4	M2 Up
5	M1 Down
6	M1 Up
7	M3 Up
8	-

ACTUATOR ADAPTER CABLE LAYOUT



ACTUATOR ADAPTER CABLE DATA

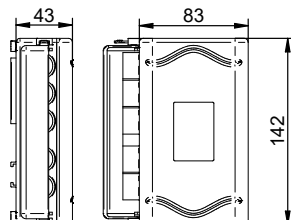
C

Cable length	mm	150
Cable diameter	mm	5
Wires	AWG20	

DDLA-24-4 | ASYNCHRONOUS ACTUATOR CONTROL BOX



DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

DDLA - 24 - Number of actuators

Example: DDLA-24-4

ACCESSORIES



ACTUATOR CONTROL BOX DATA

C

Mode	Asynchronous	
Number of actuators	4	
Compatible controller ¹	HDL-DDLA-24-4	
Compatible actuators ²	Transmotec linear actuators DLA series and DLB series	
Output voltage	V	24
Output current	A	3
Overload protection current	A	N/A
Duty cycle ³	%	10
Input voltage	V	24
Power cable	DIN 41529	
Power cable length	mm	1000
CE label ⁴	Yes	
Operating temperature	°C	5 to 40
IP rating	IP42	
Weight	kg	0.37
Actuator port ⁵	4-pin DIN 41524	
Controller port ⁶	8-pin DIN 45326	
Body materials	Fireproof ABS (FR-ABS)	
Color	Black	

OPERATION GUIDANCE ASYNCHRONOUS ACTUATOR CONTROL BOXES

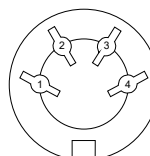
1. Connect the actuator/s adapter cable between the control box and the actuator.
2. Press and continuously hold down the M button on the controller for actuator/s operation.
3. The actuator/s will stop at any position when the controller button is released.
4. The actuator/s will stop automatically by its internal limit switches at end position.
5. Simultaneous operation of several actuators is possible.

NOTES

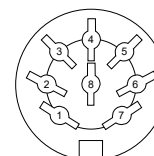
1. Sold separately. See www.transmotec.com.
2. Standard actuators are sold with flying wires but adapter cable is included. Actuators with connectors are sold on demand.
3. Max. 2 min. continuous operation in 20 min.
4. EMC Directive 2014/30/EU and 2004/108/EC
5. 72°, 216° Jack.
6. 45°, 270° Jack.

PIN LAYOUT

4-PIN DIN 41524



8-pin DIN 45326



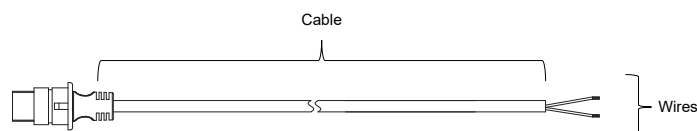
PIN CONFIGURATION 4-PIN DIN 41524

PIN	FUNCTION
1	-
2	-
3	M-
4	M+

PIN CONFIGURATION 8-PIN DIN 45326

PIN	FUNCTION
1	M3 Down
2	M2 Down
3	Vcc
4	M2 Up
5	M1 Down
6	M1 Up
7	M3 Up
8	-

ACTUATOR ADAPTER CABLE LAYOUT



ACTUATOR ADAPTER CABLE DATA

C

Cable length	mm	150
Cable diameter	mm	5
Wires	AWG20	