

Stand-alone connecting module VAZ-2E2A-G20-ZPA1

- Inputs for 3-wire sensors
- Outputs for DC roller motors (drum motors)
- Interface for coupling with adjacent zones
- Connection of motors and sensors via M8 connectors
- Operating mode, motor speed and start/stop ramp can be configured using the rotary switch
- Supply of 24 V_{DC}, connection via insulation piercing technology with gold-plated contact pins
- Function indicator for power supply, inputs and outputs, and zone coupling

G20 motor control module with an integrated logic function for Interroll EC310, Interoll EC5000 24V AI, Rulmeca BL3, Itoh Denki PM500XK, Itoh Denki PM500XC



Function

The motor control module is a field module with two sensor inputs and two electronic outputs for controlling DC roller motors. The module is optimized for use with the Interroll EC310 and Rulmeca BL3. The module can control two consecutive zones of an accumulating conveyor section. A zone consists of a roller motor and a zone sensor, e.g., for a light barrier. Both zone controllers are logically coupled within the module. The second zone controller within the module can be deactivated.

Two interfaces are available for coupling with the neighboring zones of the conveyor belt. The interfaces each provide a signal input and a signal output. The interfaces can be connected directly to 24 V-compatible SPS-IOs.

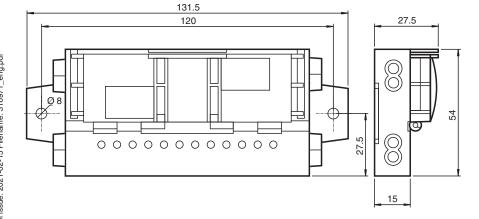
The compact housing can be installed directly into support profiles or cable ducts. The U_{AUX} power supply is connected using insulation piercing technology via a black AS-Interface flat cable. The swiveling flat cable guide is locked using a snap-fit without the use of tools. The sensor inputs and motor outputs are connected using cable outputs with M8 round plug connectors. Cable outputs with 4-pin M12 round plug

connectors are provided for zone coupling.

Power is supplied to the inputs and motors by the U_{AUX} supply. The IN LEDs display the current switching status of the sensor inputs. The MOT LEDs indicate the operating status of the motors. The ERR LEDs display when the noise is set using a motor and a defective fuse from the motor supply. The XIN and XOUT LEDs indicate the status of the zone coupling signals.

The module is configured using three rotary switches on the back of the module. Ten predefined motor speeds are available. For both zones, the direction of rotation and the direction of transportation can be adjusted. There is a choice of five predefined start/stop ramps. The operating mode of the module can be adjusted. A detailed description of the individual operating modes can be found in the manual for this module.

Dimensions



Technical Data

General specifications

UL File Number

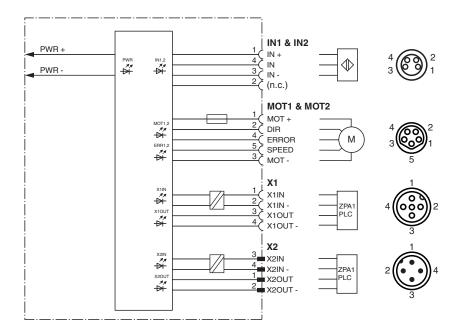
E223772 "For use in NFPA 79 Applications only"



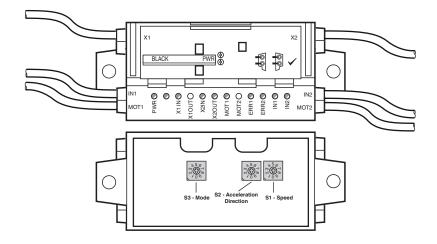
Technical Data		
Compatible roller motors		Interroll EC310, Interroll EC5000 24V AI (20W / 35W / 50W), Rulmeca BL3, Itoh Denki PM500XK, Itoh Denki PM500XC
Indicators/operating means		
Switch		S1: motor speed; rotary switch, 10 positions S2: direction of rotation and start/stop ramp; rotary switch, 10 positions S3: operating mode, rotary switch, 10 positions
LED ERR		Motor fault; 2 yellow LEDs yellow: motor error flashing yellow: motor protection unit defective
LED PWR		Supply voltage U _{PWR} ; green LED
LED IN		switching state (input); 2 LED yellow
LED MOT		Motor active; 2 yellow LEDs
LED XIN		Zone coupling input active; 2 yellow LEDs
LED XOUT		Zone coupling output active; 2 yellow LEDs
Electrical specifications		
Rated operating voltage	U _e	18 V 30 V DC PELV (via U _{PWR})
Rated operating current	l _e	≤ 30 mA (Closed-circuit current) max. 10 A (<2 s)
Surge protection		U _{PWR} : overvoltage category II, securely isolated power supply (PELV)
Interface 1		
Interface type		Interface for coupling zones with one input and one output for control signals X1
Physical		4-pin M12 socket Electronic output: PNP, overload and short-circuit proof (X1OUT) Input: PNP, galvanically isolated, potential-free (X1IN)
Load current		Input: ≤ 8 mA (internally limited) Output: 10 mA
Voltage		Input: max. 30 V DC Output (via U _{PWR}): ≥ (U _{PWR} - 2 V)
Switching point		in accordance with DIN EN 61131-2 (type 1) 0 (undamped): ≤ 0.5 mA 1 (damped): ≥ 2 mA
Interface 2		(· · · I· · ·)
Interface type		Interface for coupling zones with one input and one output for control signals X2
Physical		M12 connector, 4-pin Electronic output: PNP, overload and short-circuit proof (X2OUT) Input: PNP, galvanically isolated, potential-free (X2IN)
Load current		Input: ≤ 8 mA (internally limited) Output: 10 mA
Voltage		Input: max. 30 V DC Output (via U _{PWR}): ≥ (U _{PWR} - 2 V)
Switching point		in accordance with DIN EN 61131-2 (type 1) 0 (undamped): ≤ 0.5 mA 1 (damped): ≥ 2 mA
Input		
Number/Type		2 Inputs for 3-wire sensors (PNP), DC
Supply		via U _{PWR}
Current loading capacity		500 mA , overload and short-circuit protected
Input current		≤ 8 mA (limited internally)
Switching point		according to DIN EN 61131-2 0 (undamped) ≤ 0.5 mA 1 (damped) ≥ 2.0 mA
Input filter		10 ms
Output		
Number/Type		2 outputs for DC roller motors (MOT1, MOT2)
Supply		via U _{PWR}
Current		3.5 A continuous current , 5 A (<2 s) , max. 7.5 A (<0,3 s) per motor
Overload protection		fuse, $l^2t = 53.7 A^2s$
Velocity signal	U _S	$1.4\ldots 13$ V at no-load $R_i=5.6$ k Ω , $R_{LOAD} \ge 35$ k Ω Control using rotary switch S1

Degree of protection EN 60529:2000 Input EN 61131-2:2007 Emitted interference EN 61000-6-4:2007 Noise immunity EN 61000-6-2:2005 , EN 61326-1:2006 Ambient conditions Ambient temperature Ambient temperature -30 60 °C (-22 140 °F) Storage temperature -30 85 °C (-22 185 °F) Relative humidity 85 % non-condensing Climatic conditions For indoor use only Altitude ≤ 2000 m above MSL Shock and impact resistance 30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks Vibration resistance 0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles Pollution degree 2	Technical Data			
O (no error) ≥ 125 μA 1 (error) ≥ 25 μA	Rotation direction signal	U _D	high; \geq (U _{PWR} - 1.0 V) in no-load operation $R_i = 5.6 \text{ k}\Omega$, $R_{\text{LOAD}} \geq 5 \text{ k}\Omega$	
Electromagnetic compatibility Directive 2014/30/EU Standard conformity Degree of protection EN 60529:2000 Input EN 6131-2:2007 Emitted interference EN 6100-6-4:2007 Noise immunity EN 61000-6-2:2005, EN 61326-1:2006 Ambient conditions Ambient conditions Ambient conditions Storage temperature -30 60 °C (-22 140 °F) Storage temperature -30 85 °C (-22 185 °F) Relative humidity 85 % non-condensing Climatic conditions For indoor use only Altitude \$2000 m above MSL Shock and impact resistance 30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks Vibration resistance 30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks Pollution degree 2 Mechanical specifications Degree of protection PMR: insulation piercing technology Black flat cable Imputs/outputs: MB round plug connector in accordance with EN 61076-2-104 inputs: LF004-GS1-A (4-pin, bushing contacts, screw-lock, A-coded) Maching connector: M102-AS1-B, (4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, bu	Motor fault		0 (no error) ≥ 125 μÅ	
Directive 2014/30/EU EN 61326-1:2006	Directive conformity			
Standard conformity Degree of protection EN 60529:2000 Input EN 61131-2:2007 Emitted interference EN 61000-6-4:2007 Noise immunity EN 61000-6-2:2005 , EN 61326-1:2006 Ambient conditions Ambient temperature -30 60 °C (-22 140 °F) Storage temperature -30 85 °C (-22 185 °F) Relative humidity 85 °non-condensing Climatic conditions For indoor use only Altitude ≤2000 m above MSL Shock and impact resistance 30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks Vibration resistance 0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles Pollution degree 2 Mechanical specifications Degree of protection PWR: insulation piercing technology Black flat cable Inputs (2004-35) At (4-pin, bushing contacts, screw-locking, A-coded Matching connector: NM005-Sx1-B or similar Coupturs (NP004-Sx1-B or similar	Electromagnetic compatibility			
Degree of protection Input EN 60529:2000 Emitted interference EN 61131-2:2007 Emitted interference EN 611000-6-4:2007 Noise immunity EN 61000-6-2:2005, EN 61326-1:2006 Ambient conditions Ambient temperature -30 60 °C (-22 140 °F) Storage temperature -30 65 °C (-22 185 °F) Relative humidity B5 % non-condensing Climatic conditions For indoor use only Altitude ≤2000 m above MSL Shock and impact resistance 30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks Vibration resistance 0,75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles Pollution degree Mechanical specifications Degree of protection PMR: insulation piercing technology Black flat cable Inputs (1004-631-14, 44-pin, bushing contacts, screw-locking, A-coded) Matching connector: NM004-631-14 (4-pin, bushing contacts, sarpa lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 cound plug contacts, sarpa lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 cound plug contacts, sarpa lock, B-coded (32: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Temale connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Temale connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Temale connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Temale connector: M12, 4-pin, bushing contacts, screw-locking, A-co	Directive 2014/30/EU		EN 61326-1:2006	
Input EN 61131-2:2007 Emitted interference EN 61000-6-4:2007 Noise immunity EN 61000-6-2:2005 , EN 61326-1:2006 Ambient conditions Ambient temperature -30 60 °C (-22 140 °F) Storage temperature -30 85 °C (-22 185 °F) Relative humidity 85 °cnor-condensing Climatic conditions For indoor use only Altitude ≤ 2000 m above MSL Shock and impact resistance 30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks Vibration resistance 0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles Pollution degree 2 Mechanical specifications Degree of protection IP65 in accordance with EN 60529 (not certified by UL) Connection PWR: insulation piercing technology Black flat cable Inputs/outputs: MB round plug connector in accordance with EN 61076-2-104 Inputs: IF004-GS1-A (4-pin, bushing contacts, screw-locking, A-coded) Matching connector: LM004-GX1-A or similar cone coupling: M12 cound plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Pemale connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Female conn	Standard conformity			
Emitted interference EN 61000-6-4:2007 Noise immunity EN 61000-6-4:2005 , EN 61326-1:2006 Ambient conditions Ambient temperature -30 60 °C (-22 140 °F) Storage temperature -30 85 °C (-22 185 °F) Relative humidity 85 % non-condensing Climatic conditions Altitude ≤2000 m above MSL Shock and impact resistance 30g , 11 ms in 6 spatial directions, 3 shocks 10g , 16 ms in 6 spatial directions, 1000 shocks Vibration resistance 0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles Pollution degree 2 Mechanical specifications Degree of protection PWR: insulation piercing technology Black flat cable Inputs/outputs: MB round plug connector in accordance with EN 61076-2-104 Inputs: [F004-GS1 +A (4-pin, bushing contacts, sorew lock, A-coded) Matching connector: LM004-GX1-A or similar Cone coupling: M12, 4-pin, bushing contacts, sorew-locking, A-coded Y2: M12, 4-pin, bushing contacts, sorew-locking, A-coded Y2: M12, 4-pin, bushing contacts, sorew-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-c	Degree of protection		EN 60529:2000	
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Ambient temperature -30 60 °C (-22 140 °F) Storage temperature -30 85 °C (-22 185 °F) Relative humidity 85 % non-condensing Climatic conditions For indoor use only Altitude ≤2000 m above MSL Shock and impact resistance 30, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks Vibration resistance 0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles Pollution degree 2 Mechanical specifications Degree of protection IP65 in accordance with EN 60529 (not certified by UL) Connection PWR: insulation piercing technology Black flat cable Inputs/outputs: M8 round plug connector in accordance with EN 61076-2-104 Inputs: LF004-GS1-A (4-pin, bushing contacts, screw lock, A-coded) Matching connector: LM004-SX1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-c	Noise immunity		EN 61000-6-2:2005 , EN 61326-1:2006	
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Relative humidity Climatic conditions For indoor use only Altitude ≤ 2000 m above MSL Shock and impact resistance 30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks Vibration resistance 0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles Pollution degree 2 Mechanical specifications Degree of protection 1P65 in accordance with EN 60529 (not certified by UL) Connection PWR: insulation piercing technology Black flat cable Inputs/outputs: M8 round plug connector in accordance with EN 61076-2-104 Inputs: LF004-GS1-A (4-pin, bushing contacts, screw lock, A-coded) Matching connector: LM004-Gx1-A or similar Outputs: NP005-Sx1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, pushing contacts, snap lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts,	Ambient temperature		-30 60 °C (-22 140 °F)	
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Vibration resistance 0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles Pollution degree 2 Mechanical specifications Degree of protection IP65 in accordance with EN 60529 (not certified by UL) Connection PWR: insulation piercing technology Black flat cable Inputs/outputs: M8 round plug connector in accordance with EN 61076-2-104 Inputs: LF004-GS1-A (4-pin, bushing contacts, screw lock, A-coded) Matching connector: LM004-Gx1-A or similar Outputs: NF005-SS1-B (5-pin, bushing contacts, snap lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded X2: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded X2: M12, 4-pin, bushing contacts, screw-locking, A-coded X3: M12, 4-pin, bushing contacts, screw-locking, A-coded X2: M12, 4-pin, bushing contacts, screw-locking, A-coded X3: M12, 4-pin, bushing contacts, screw-locking, A-coded X3: M12, 4-pin, bushing contacts, screw-locking, A-coded X4: M12, 4-pin, bushing contacts, screw-locking, A-coded X5: M12, 4-pin, bushing contacts, screw-locking, A-coded X6: M12, 4-pin, bushing contacts, screw-locking, A-coded X7: M12, 4-pin, bushing contacts, screw-locking, A-coded X8: M12, 4-pin, bushing contacts, screw-locking, A-coded X9: M12, 4-pin,	Altitude		≤ 2000 m above MSL	
Pollution degree 2 Mechanical specifications	Shock and impact resistance			
Mechanical specifications Degree of protection IP65 in accordance with EN 60529 (not certified by UL) Connection PWR: insulation piercing technology Black flat cable Inputs/outputs: M8 round plug connector in accordance with EN 61076-2-104 Inputs: LF004-GS1-A (4-pin, bushing contacts, screw lock, A-coded) Matching connector: LM004-Gx1-A or similar Outputs: NF005-SS1-B (5-pin, bushing contacts, snap lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded X2: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Single Pemale connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Inputs/outputs/ Single Pemale P	Vibration resistance		0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles	
Degree of protection IP65 in accordance with EN 60529 (not certified by UL) PWR: insulation piercing technology Black flat cable Inputs/outputs: M8 round plug connector in accordance with EN 61076-2-104 Inputs: LF004-GS1-A (4-pin, bushing contacts, screw lock, A-coded) Matching connector: LM004-Gx1-A or similar Outputs: NF005-SS1-B (5-pin, bushing contacts, snap lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Signal	Pollution degree		2	
Connection PWR: insulation piercing technology Black flat cable Inputs/outputs: M8 round plug connector in accordance with EN 61076-2-104 Inputs: LF004-GS1-A (4-pin, bushing contacts, screw lock, A-coded) Matching connector: LM004-Gx1-A or similar Outputs: NF005-SS1-B (5-pin, bushing contacts, snap lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded X2: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded X2: M12, 4-pin, bushing contacts, screw-locking, A-coded X3: M12, 4-pin, bushing contacts, screw-locking, A-coded X2: M12, 4-pin, bushing contacts, screw-locking, A-coded X2: M12, 4-pin, bushing contacts, screw-locking, A-coded X3: M12, 4-pin, bushing contacts, screw-locking, A-coded X2: M12, 4-pin, bushing contacts, screw-locking, A-coded X3: M12, 4-pin, bushing contacts, screw-locking, A-coded X3: M12, 4-pin, bushing contacts, screw-locking, A-coded X4: M12, 4-pin, bushing contacts, screw-locking, A-coded X2: M12, 4-pin, bushing contacts, screw-locking, A-coded X3: M12, 4-pin, bushing contacts, screw-lo	Mechanical specifications			
Black flat cable Inputs/outputs: M8 round plug connector in accordance with EN 61076-2-104 Inputs: LF004-GS1-A (4-pin, bushing contacts, screw lock, A-coded) Matching connector: LM004-Gx1-A or similar Outputs: NF005-SS1-B (5-pin, bushing contacts, snap lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded X2: M12, 4-pin, connector contacts, screw-locking, A-coded Female connector: M12, 4-pin, bushing contacts, screw-locking, A-coded Mass 310 g Mounting 2 clips with Ø 8 mm drill hole Cable length 1 m (inputs/outputs) , 1.5 m (zone coupling), max. 30 m	Degree of protection		IP65 in accordance with EN 60529 (not certified by UL)	
Mounting 2 clips with Ø 8 mm drill hole Cable length 1 m (inputs/outputs), 1.5 m (zone coupling), max. 30 m	Connection		Black flat cable Inputs/outputs: M8 round plug connector in accordance with EN 61076-2-104 Inputs: LF004-GS1-A (4-pin, bushing contacts, screw lock, A-coded) Matching connector: LM004-Gx1-A or similar Outputs: NF005-SS1-B (5-pin, bushing contacts, snap lock, B-coded) Matching connector: NM005-Sx1-B or similar Zone coupling: M12 round plug connector in accordance with EN 61076-2-101 X1: M12, 4-pin, bushing contacts, screw-locking, A-coded Female connector: M12, 4-pin, connector contacts, screw-locking, A-coded X2: M12, 4-pin, connector contacts, screw-locking, A-coded	
Cable length 1 m (inputs/outputs) , 1.5 m (zone coupling), max. 30 m	Mass		310 g	
	Mounting		2 clips with Ø 8 mm drill hole	
Note The flat cable routing is designed for 100 actuation cycles	Cable length		1 m (inputs/outputs) , 1.5 m (zone coupling), max. 30 m	
	Note		The flat cable routing is designed for 100 actuation cycles	

Connection



Assembly



Accessories



Configuration

Configuration Information

The device can be configured using the S1, S2, and S3 rotary switches.

S1 rotary switch: motor speed

8 configurable speeds.

+/- 1 % accuracy

Motor stops at $U_S < 1.5 \text{ V}$

Motor speed	
Switch setting	Speed signal U _S
0	3.96 V
1	4.78 V
2	5.61 V
3	6.44 V
4	8.50 V
5	9.63 V
6	10.00 V
7	7.26 V
8	Reserved
9	Reserved

S2 rotary switch: start/stop ramp and direction of rotation

5 configurable ramps.

Incline: constant, independent of terminal velocity.

Duration: The ramp duration defines the time from stationary to max. speed ($U_S = 10 \text{ V}$) or from max. speed to stationary. When the terminal velocity is lower, the ramp duration is shorter.

Direction of rotation/direction of transportation					
Switch setting	Direction of rotation U _D	Direction of transportation			
0 4	high, right	Zone 1 -> Zone 2			
5 9	low, left	Zone 2 -> Zone 1			

Start/stop ramp	
Switch setting	Ramp duration (stationary -> V _{max} or V _{max} -> stationary)
0, 5	Ramp 1: no ramp (default setting)
1, 6	Ramp 2: 500 ms
2,7	Ramp 3: 1000 ms
3, 8	Ramp 4: 1500 ms
4, 9	Ramp 5: 3000 ms

S3 rotary switch: operating mode

Note: The inactive zone synchronizes its motor output with the active zone.

Operating mode		
Switch setting	Mode	Upstream zone
0	Standard ZPA	Active
1	Enhanced ZPA	Active
2	Standard ZPA	Inactive
3	Enhanced ZPA	Inactive
4	Transportation	Active
5	Long Zone	Inactive
6	Direct Control	Active
7	Direction Control	Inactive
8	Slave	Inactive
9	Reserved	-