

# Technical Specification

Version 1.1

April 2016



**Specification for Part Numbers:**

**EZ-24**

**EZ-24-HTB**

**EZ-24-HTBS**

Publication PR-1200

*ConveyLinx module firmware and functionality is protected by U.S. and international patents. For complete patent information visit [www.pulseroller.com/patents](http://www.pulseroller.com/patents)*

# EZ24 FAMILY

## ELECTRICAL SPECIFICATIONS

### EZ-24

Input Power Voltage Range	(18 - 28) V Nominal 24VDC:
Control Input Voltage Range	(14 – 30) VDC
Current Consumption	~ 50 mA without MDR
Built –in Current Limits	Max Peak Current 15A Max Start Current 5A, (or less, depending on the MDR) Max. Lock Current 4A, (or less, depending on the MDR) 5A fuse to power supply protection
“External speed” Input	Analog Voltage: 0 – 10V
PWM frequency	20kHz
Time delay initial setting	< = 50 msec from power ON.
Time to start motor rotation	< = 10 msec
Motor Protection	Coil-to-coil short, coil-to-Vcc short, overheating, over-voltage, under-voltage, stall sensing and protection
Operating Temperature	0° to 50°C
Storage Temperature	-40° to 85°C

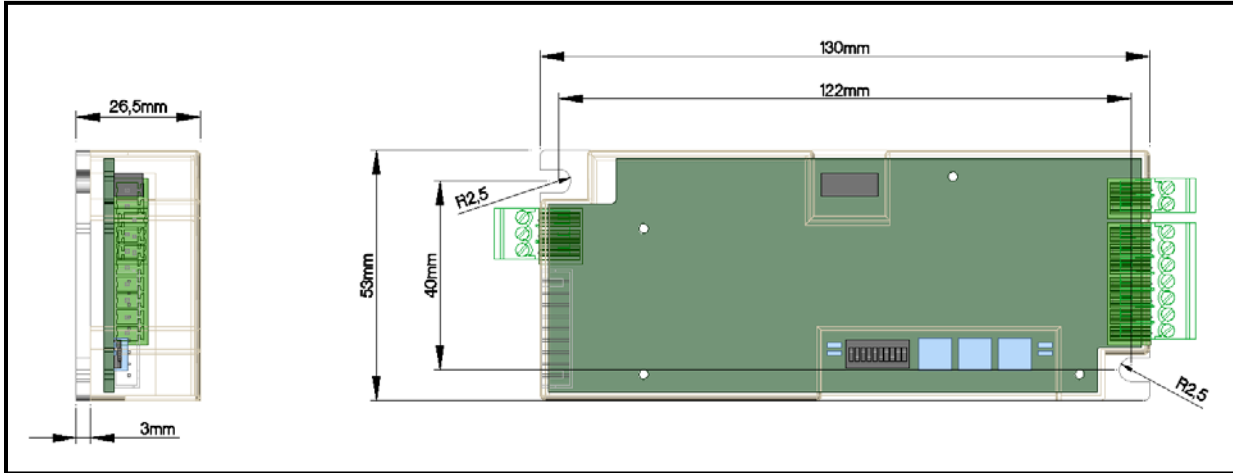
### EZ-24HTB / EZ-24HTBS

Input Power Voltage Range	(18 - 28) V Nominal 24VDC:
Control Input Voltage Range	(14 – 30) VDC
Current Consumption	~ 50 mA without MDR
Built –in Current Limits	Max Peak Current 20A Max Start Current 8A, (or less, depending on the MDR) Max. Lock Current 5A, (or less, depending on the MDR) 8A fuse to power supply protection
“External speed” Input	Analog Voltage: 0 – 10V
PWM frequency	20kHz
Time delay initial setting	< = 50 msec from power ON.
Time to start motor rotation	< = 10 msec
Motor Protection*	Coil-to-coil short, coil-to-Vcc short, overheating, over-voltage, under-voltage, stall sensing and protection
Brake output type	PNP ( high side switch )
Brake output current	0.5A ( 1 A peak )
Operating Temperature	0° to 50°C
Storage Temperature	-40° to 85°C

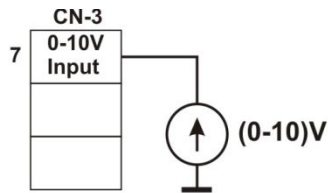
# EZ24 FAMILY

## MOUNTING DIMENSIONS

All dimensions are in mm and are the same for all EZ-24 Family



### ANALOG INPUT SCHEMATIC



$R_{in} = 100k$  i.e.  
 Current consumption of this analog input  
 is  $100\mu A$  on  $U_{in} = 10V$   
 ( $10\mu A$  on  $U_{in} = 1V$ )

### MOTOR PORT PIN-OUT

1	2	3	4	5	6	7	8	9
•	•	•	•	•	•	•	•	•
Vcc for Hall-effect sensors	GND	BLDC Phase 1	BLDC Phase 2	BLDC Phase 3	Hall-effect sensor 1	Hall-effect sensor 2	Hall-effect sensor 3	Mechanical brake output





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