

**BL AUTOTEC**

# **ROTARY JOINT™**

**BL PN-ZERO Series**

Rotary Joint for Positioners and Turntables

**PN-ZERO 2/6**

**PN-ZERO 2/12**

**PN-ZERO 2/24**

**PN-ZERO 2/36**

**PN-ZERO 2/D-5**

**PN-ZERO 2/U-6**

**PN-ZERO 2/C-4**



**BL PN-ZERO Series** is a rotary joint developed for positioners and turntables. The lightweight and compact body is equipped with electrical signal contacts and pneumatic port utilities. There are no restrictions on the angle of rotation, so its endless 360 degree rotation eliminates problems associated with electrical wire wrapping and pneumatic pipe fittings. Please select a model based on the electrical signal contacts and number of contacts needed.



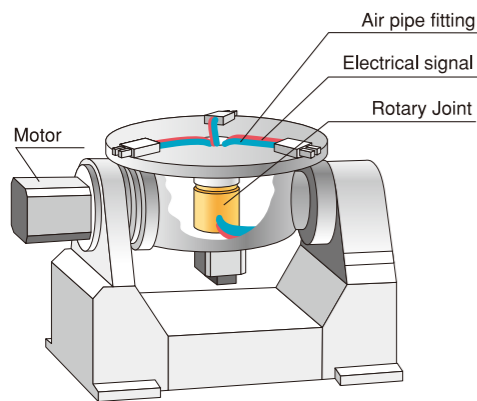
## Features

- Equipped with both electrical signal contacts and pneumatic port utilities
- Lightweight and compact body
- 360 degree endless rotation (Rated 50rpm)
- Supports three wire-saving models (DeviceNet, Uni-wire, CC-Link) and four analog signal models (6, 12, 24 and 36 electrical wires)
- CC-Link Partner Association approval (PN-ZERO 2/C-4)

## Usages

- Positioner turntable shafts
- Shafts for plural jigs by vertical and lateral rotation method
- Other forward/reverse rotation device shafts

## Usage example (Positioner)



**PN-ZERO 2/6**



**PN-ZERO 2/12**



**PN-ZERO 2/24**



**PN-ZERO 2/36**



**PN-ZERO 2/D-5** (DeviceNet spec.)



**PN-ZERO 2/U-6** (Uni-wire spec.)



**PN-ZERO 2/C-4** (CC-Link spec.)

## Main specifications (Analog signal model)

Specifications	Model	PN-Z RO 2/6	PN-Z RO 2/12	PN-Z RO 2/24	PN-Z RO 2/36	
Angle of rotation		360 degree endless rotation				
Outside dimension		φ89mm×H132mm	φ89mm×H152mm	φ89mm×H172mm		
Product weight		2.6kg	2.8kg	2.9kg	3.0kg	
Rotational torque		About 500N·cm				
Rotational speed	(Max)	100rpm				
	(Rated)	50rpm				
Connecting utilities	Electrical signals	Number of electrical wires	6 electrical wires	12 electrical wires	24 electrical wires	36 electrical wires
		Contact capacity (max)	2A sequential (AC100V/DC100V)			
		Stationary side	Cable with shield / Plug-in type pin terminal PC2005M (Nichifu)			
	Pneumatic pressure	Rotational side	Cable with shield / Plug-in type pin terminal PC2005M (Nichifu)			
		Number of ports				
		Minimum conduit diameter				
Pressure range for use						
Stationary side connection						
Rotational side connection						

## Main specifications (Wire-saving model)

Angle of rotation			
Outside dim			
Rotational speed	(Max)		
	(Rated)		
Electrical signals	Number of electrical wires	Wire-saving	
		Backup electrical wires	
	Connection	Stationary side	Wire-saving
			Backup electrical wires
		Rotational side	Wire-saving
			Backup electrical wires
Pneumatic pressure	Number of ports		
	Minimum conduit diameter		
	Pressure range for use		
	Stationary side connection		
Rotational side connection			

