



Electrical Rotary Swivels CE Series

Description

Electricals available with multiple # of contacts depending on the customer needs.

On request the Electrical swivel can be supplied assembled with the hydraulic rotary manifolds.

Typical applications

When transmissions of signals or FieldBus current is required between a stationary and a rotating part. Typical applications include cranes, building equipment , aerial platforms, or any applications with a 360° rotation.

General Features

- Rotation speed:** 0-15 rev / min.
(higher speeds on request)
- Operating temperature:** -20 °C / +60 °C - 4° F / + 140° F
- IP protection rating:** IP55 / 65
- Direction of Rotation:** Reversible (CW / CCW)

Electrical Characteristics

Rated voltage: 500V AC, 220V DC

Intensity of current:mA - 80 A

Contact resistance ring-brush: <20 mΩ

Ring Material: Bronze with silver plating treatment for the power lines and gilding for signals lines.

Brush holder: Double A-arm (2 brushes per ring)

Brush Material: Metalcarbon for power lines and Silvergraphite for signals lines.

Cable outlet: axial for rings, radial for brushes.

Length: 3m from both sides, different lengths on request.

Cable cross section: Single-core cables from 0.75mm² to 4 mm² depending on the current intensity requested.

Shielded cables for signals: available with gold plated contacts for CANBUS type signal transmissions.

Materials Used

Base: Anodized aluminum

Housing: anodized aluminum or nylon

Cover: Anodized aluminum

Cable routing: smooth PVC

Standard fitting for wiring guide: nickel plated brass
or galvanized with seal

Hardware: galvanized steel

On request options

Installation on Hydraulic Rotary Manifolds

Connectors: AMP, DEUTSCH

Prearranged for encoder and installation option if required

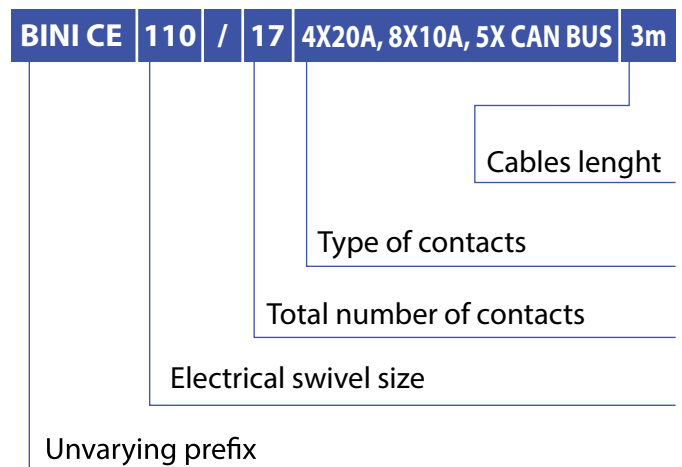
Special cables

Anti-condensation heaters

Conduits and fittings suitable for special applications

Order Code

The BINI electrical swivel are identified by an acronym made up in the following way:



Example:

To order a manifold with 8-way power 10 A and 4 way 20 A + CAN BUS which engages 5 Rings. Output cables 3 m. length.

CODE = BINI CE 110 / 17 n° 8 x 10A - n° 4 x 20A - n° 5 x CAN BUS - 3 m.

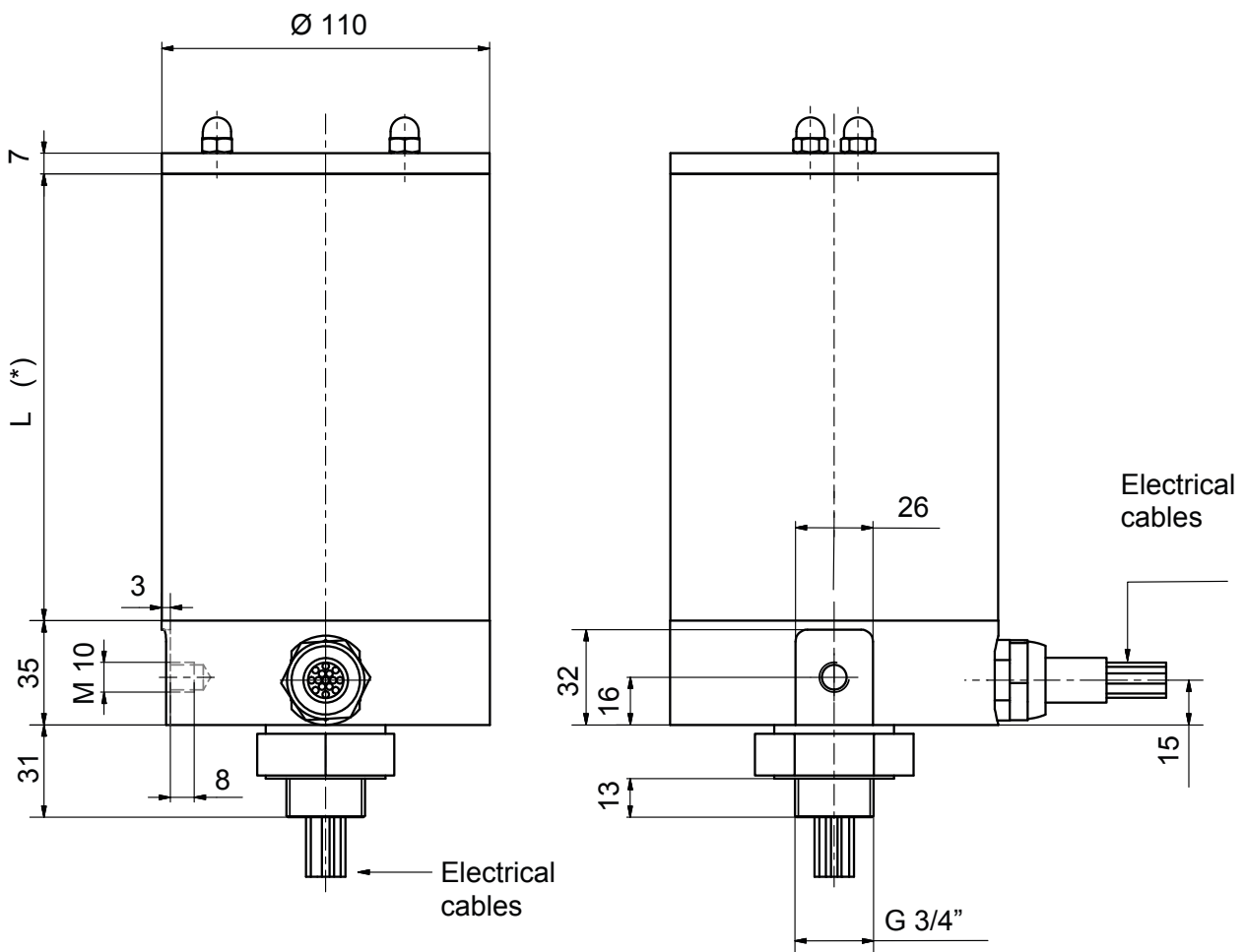
To order a manifold with 8-way power 10 A and 4 way 20 A + CAN BUS which engages 5 Rings. Output cables 3 m. length.

CODE = BINI CE 163 / 17 n° 8 x 10A - n° 4 x 20A - n° 5 x CAN BUS - 3 m.

Electric Rotary Swivel CE 110



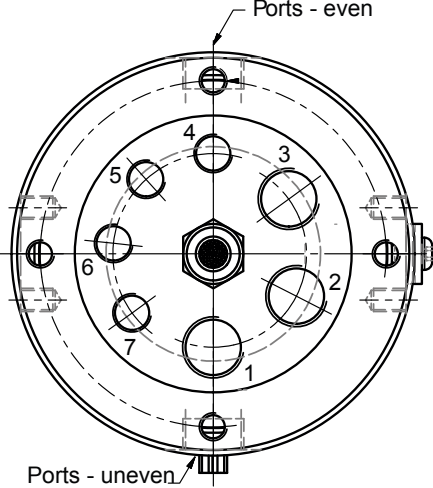
Installation Drawing



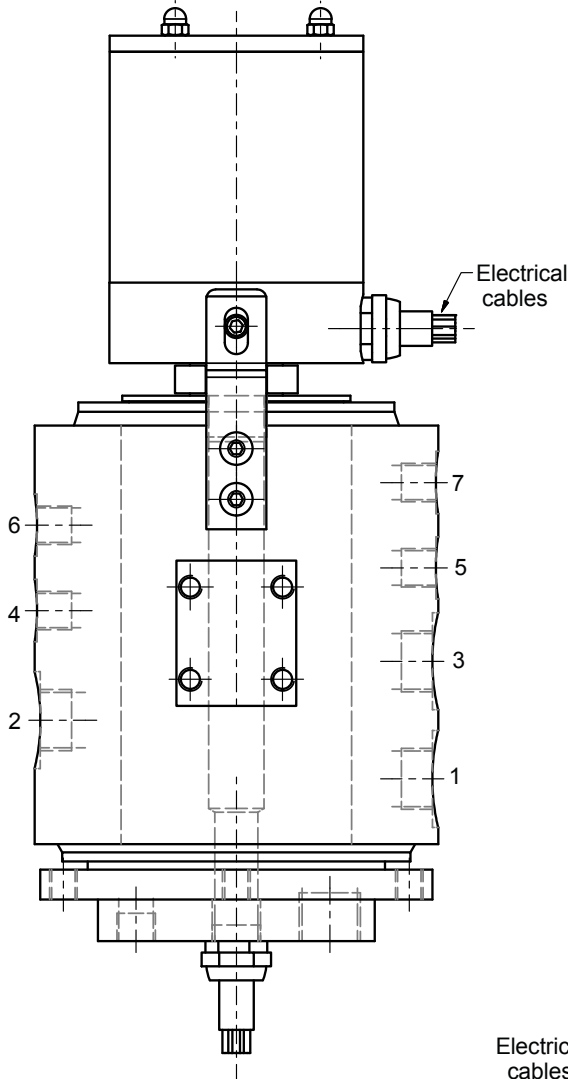
L (*) - Variable, depending on the number of contacts

Electric Rotary Swivel CE 110

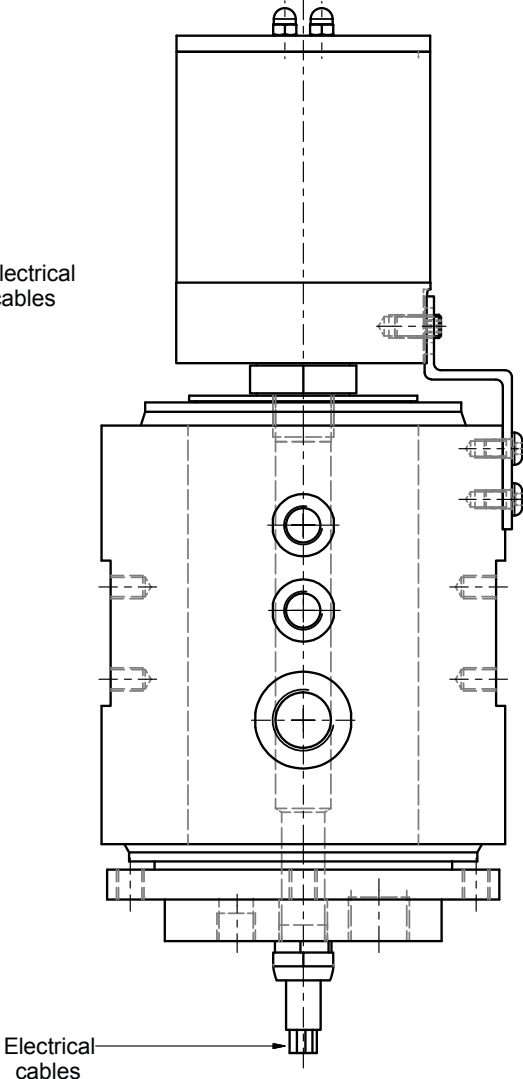
Installation example on a Hydraulic Rotary Manifold



Electric



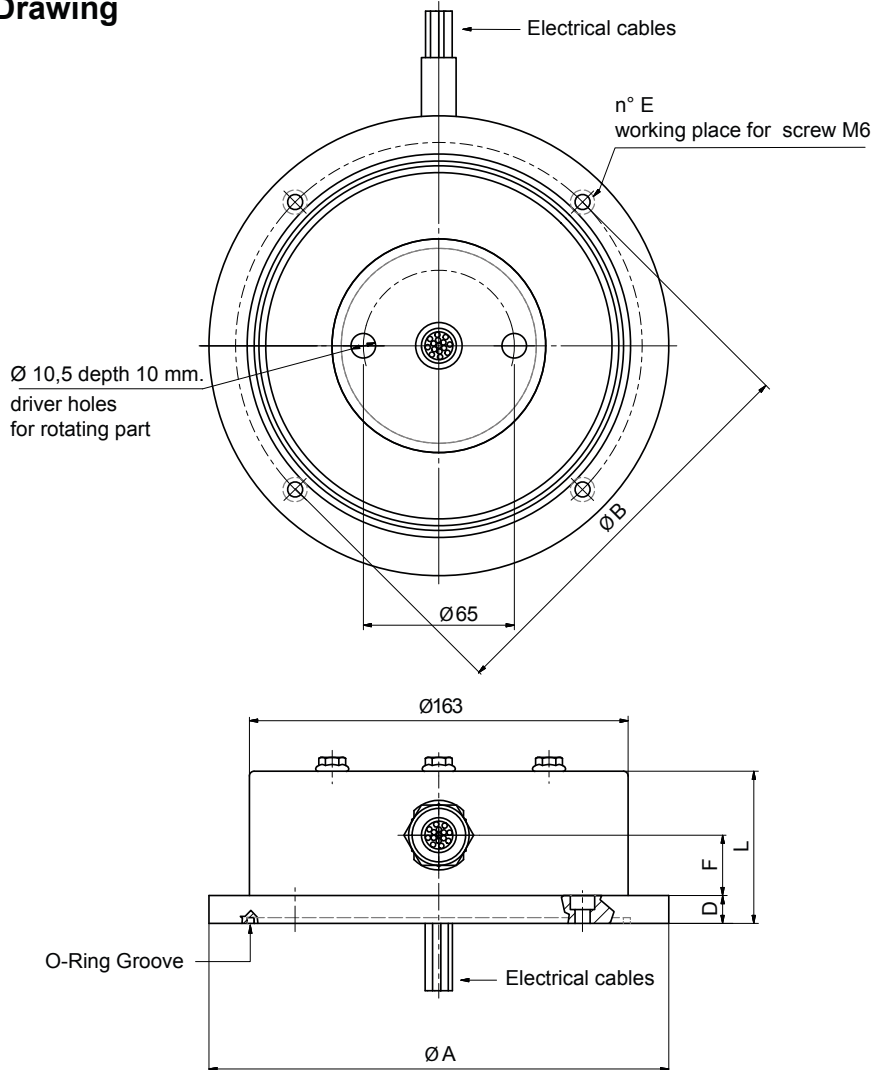
Hydraulic



Electric Rotary Swivel CE 163



Installation Drawing



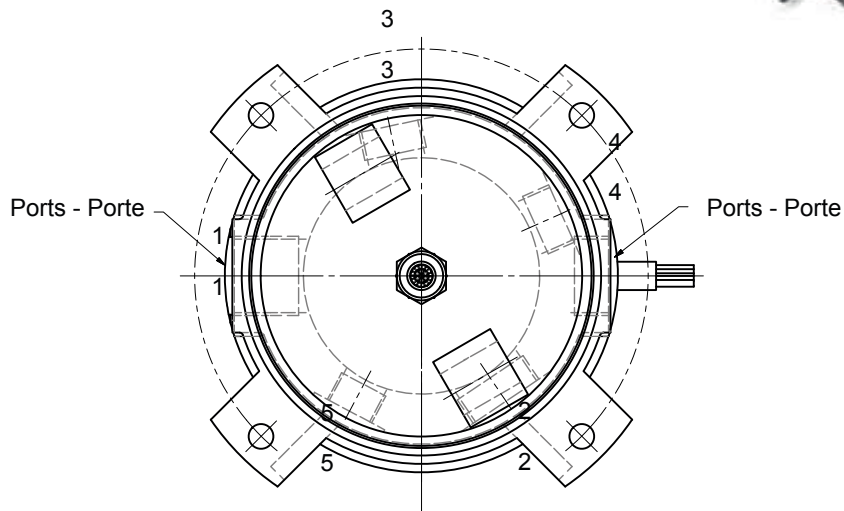
A*	B	L**	D	E	F*
170	130	variable	13	4	variable from 26 to 38
170	130	variable	4.5	4	variable from 26 to 38
180	164	variable	18.5	4	variable from 26 to 38
199	175	variable	10	4	variable from 26 to 38
218	205	variable	12.5	6	variable from 26 to 38

* For further information please contact our Technical Dept

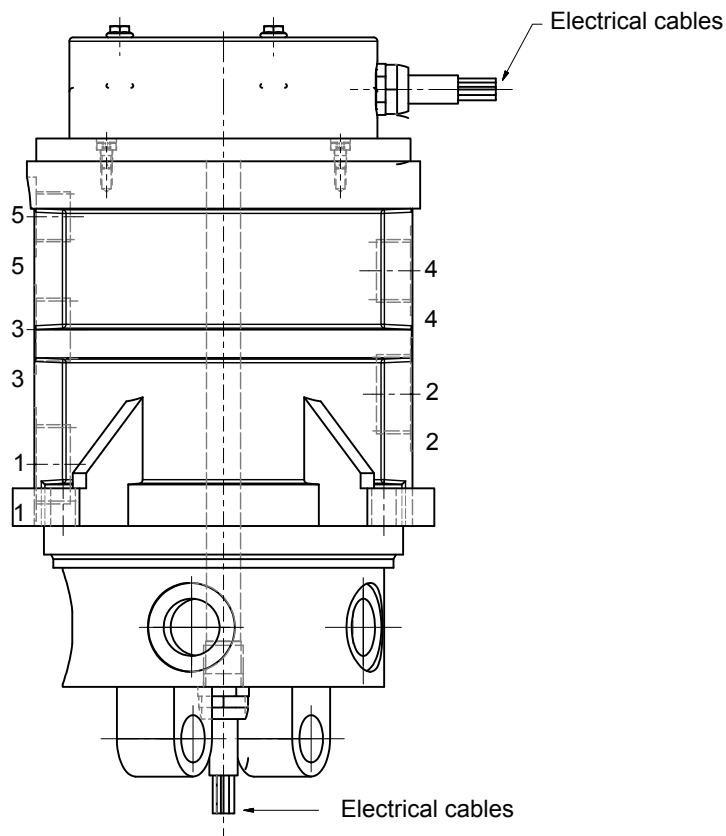
** Variable, depending on the number of rings

Electric Rotary Swivel CE 163

Installation example on a Hydraulic Rotary Manifold

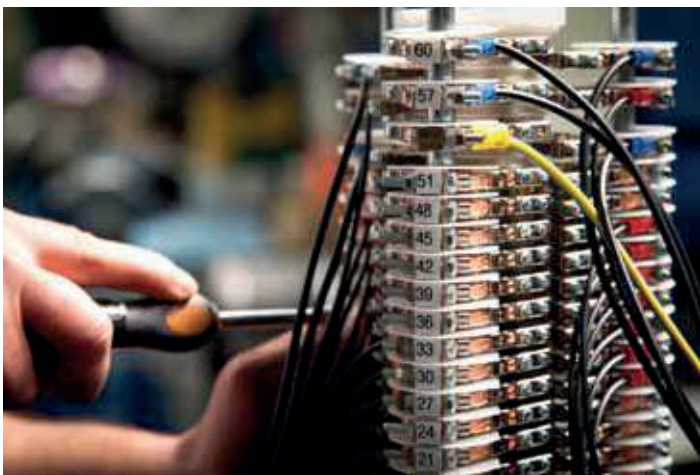


Electric



Hydraulic

Examples of standard electrical swivel





**NEW PATENT 2013:
BINI 12425100.0 - 05/2012**

The pictures represent our newest patent design, where the electrical swivel is an integral part of the hydraulic swivel. This solution guarantees a much greater protection, and is ideal for those applications usually exposed to aggressive and contaminated environments such as marine applications, mining applications, forestry applications.

Another advantage of this new patented design is that this new patented design offers an overall compact dimension, ideal for applications with limited axial space. This design is available in different configurations and numbers of hydraulic ports and electrical contacts.