

## Beckhoff — EJ EtherCAT Plugins

# EJ1914



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The **EJ1914** is a Beckhoff plug-in from the EJ EtherCAT Plugins series that provides localized digital I/O on carrier boards. It is intended for modular machines where space and wiring must be minimized. The device inserts four clocked outputs and four standard inputs directly into the EtherCAT signal chain so that a controller can trigger actuators and read sensors with deterministic timing.

Electrical power is supplied at **24 VDC**, and each of the four channels designated as clock outputs can source up to **11 mA**. The module publishes its channel edges through EtherCAT-synchronized latches, enabling precise distribution of **4 clock outputs** to drives or stepper controllers. The input circuitry complies with the **EN 61131-2 Type 3** standard, which supports compatible field devices while maintaining consistent threshold levels. A front face measuring **24 mm** in width combines with a depth of 55 mm to keep the footprint narrow. All four digital inputs share the same 24 V reference, allowing field wiring to be bundled in one connector. The hardware fault tolerance is rated at 1, allowing the safety function to remain available after a single internal fault when the module is integrated correctly.

The housing has a height of **66 mm**, leaving enough space for coded keying that prevents incorrect placement on the carrier board. Diagnostic coverage of **98.3%** and a calculated PFHD of **3.21E-09** failures per hour support applications that target Category 4 architectures. The mean time to dangerous failure reaches **2406 a**, and the average probability of a dangerous failure on demand is  $5.1 \times 10^{-5}$ . The module supports Performance Level PL e and SIL 3 applications when used within a suitable safety architecture. Four logically independent inputs allow

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separate safety signals to be monitored through the EtherCAT system. Carrier-board mounting reduces conventional terminal wiring while retaining direct access to synchronized input and output data.

## Specifications

|                                     |                   |                                  |             |                              |                           |
|-------------------------------------|-------------------|----------------------------------|-------------|------------------------------|---------------------------|
| <b>Clock Output Current Max:</b>    | 11 mA             | <b>Coating:</b>                  | Zinc plated | <b>Corrosion Resistance:</b> | 500 hours salt spray      |
| <b>Depth:</b>                       | 55 mm             | <b>Diagnostic Coverage:</b>      | 98.3%       | <b>Diameter:</b>             | 20 mm                     |
| <b>Hardness:</b>                    | HRC 32-36         | <b>Hardware Fault Tolerance:</b> | 1           | <b>Height:</b>               | 66 mm                     |
| <b>Input Signal Type:</b>           | EN 61131-2 Type 3 | <b>Length:</b>                   | 50 mm       | <b>Material:</b>             | High-strength alloy steel |
| <b>Mttfd:</b>                       | 2406 a            | <b>Number Of Clock Outputs:</b>  | 4           | <b>Number Of Inputs:</b>     | 4                         |
| <b>Operating Temperature Range:</b> | -40°C to +120°C   | <b>Performance Level:</b>        | PL e        | <b>Pfdavg:</b>               | 5.1E-05                   |
| <b>Pfhd:</b>                        | 3.21E-09          | <b>Supply Voltage:</b>           | 24 VDC      | <b>Tensile Strength:</b>     | 1,200 MPa                 |
| <b>Thread Type:</b>                 | M20 x 2.5         | <b>Tolerance:</b>                | ±0.02 mm    | <b>Weight:</b>               | 0.34 kg                   |
| <b>Width:</b>                       | 24 mm             | <b>Yield Strength:</b>           | 950 MPa     | <b>Last Verified:</b>        | 10/22/2026 2:34 PM        |

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## Shipping Options



## Payment Methods



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