

CI 1J/EN-RS, -DP, -EN, -PN, -EI

The computer interface CI 1J/EN-XX processes values from a measuring head of any single, dual or triple axis laser diameter gauge of the ODAC J series. It processes the signal from the measuring head and outputs through serial interfaces the measured values it has computed. The interface box allows the connection of the analog interface AI 4-ODAC (option) with four outputs, an external length detector as well as the local display LOC 01. The connected ODAC measuring head will be powered through the computer interface.

Advantages

- Calibrated single scan CSS
- Single scan monitoring
- Data rate up to 333/s*
* Depending on the measuring head model, the number of transmitted measured values as well as the baud rate of the interface.

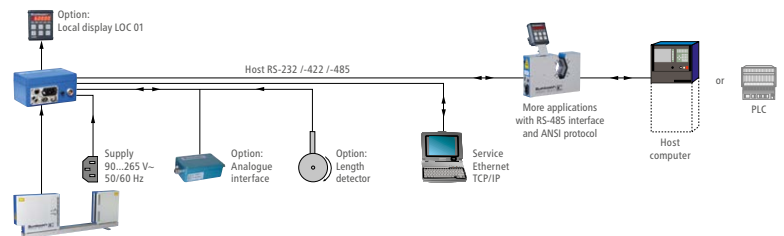
Flexible communication integration

- RS (-232 / -422 / -485)
- DP (Profibus DP)
- EN (Ethernet TCP/IP)
- PN (Profinet IO V2.3)
- EI (EtherNet/IP)



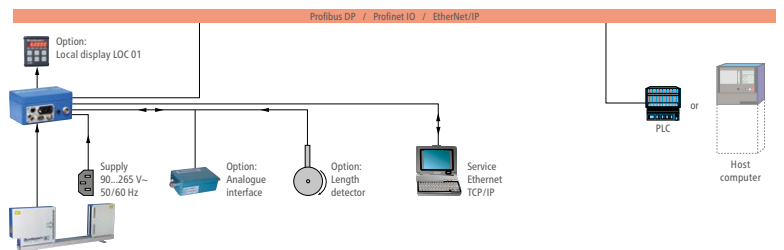
CI 1J/EN-RS

The RS version communicates via the integrated RS interface with a higher level system, like USYS from Zumbach, host computer or PLC. The Zumbach ODAC, ASCII or the network capable ANSI software protocols are selectable according to choice. The service interface (Ethernet TCP/IP) is used for configuring the computer interface.



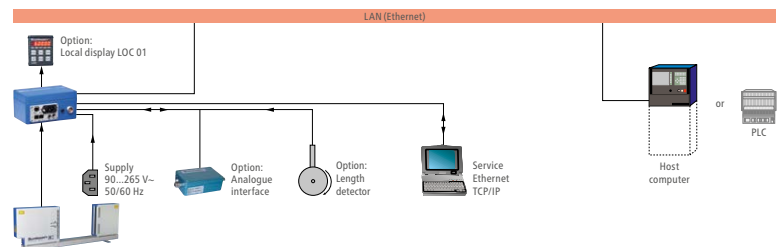
CI 1J/EN-DP, CI 1J/EN-PN, CI 1J/EN-EI

These versions communicate via the integrated Profibus DP, Profinet IO or EtherNet/IP interface with a higher level system. These interfaces are designed for high speed data transfer at the sensor actuator level. At this level, controllers such as programmable logic controllers (or PLC's) exchange data via a fast serial (Profibus DP) or Ethernet (Profinet IO) connection with their distributed peripherals such as drivers, valves or intelligent slaves like ODAC measuring heads. The service interface (Ethernet TCP/IP) is used for configuring the computer interface.



CI 1J/EN-EN

The EN version communicates via the integrated EN interface with a higher level system. The selectable Zumbach protocols ODAC or ASCII are integrated and transmitted in the well known TCP/IP protocol. TCP/IP allows the data transfer through existing networks such as LANs and others. The service interface (Ethernet TCP/IP) is used for configuring the computer interface.



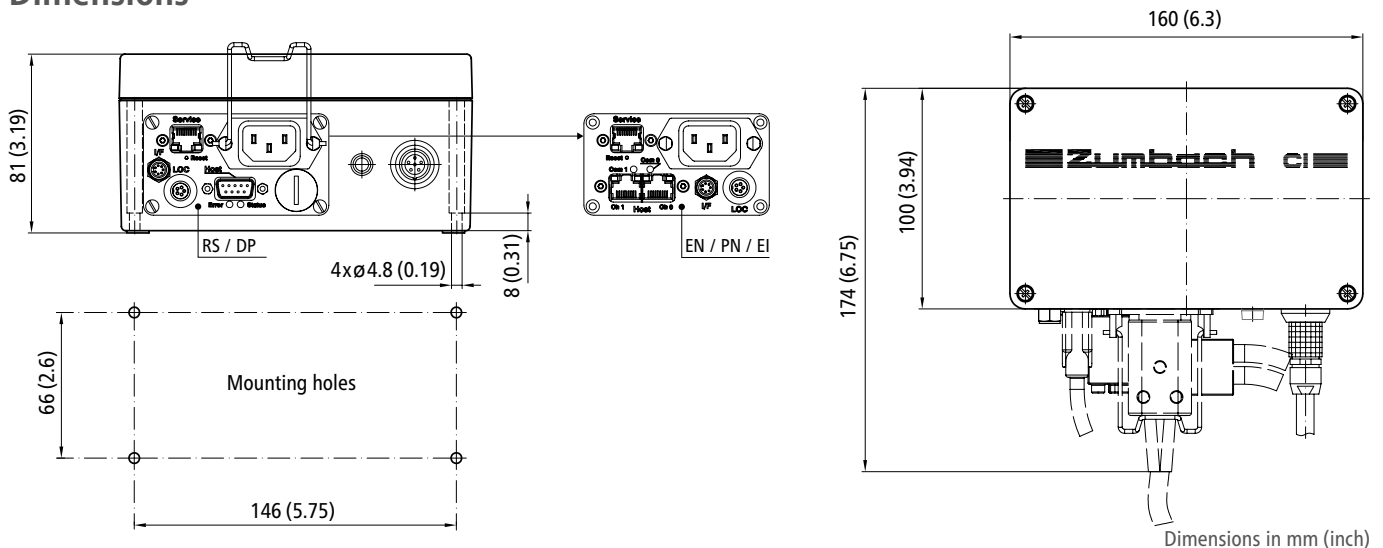
Technical Data

Model CI 1J/	EN-RS	EN-DP	EN-EN	EN-PN	EN-EI
Connectable measuring heads	– ODAC 2J, 16J, 60J, 100J, 160J, 230J, 310J, 550J – ODAC 14XY-J, 14XY-JM, 15XY-J, 15XY-JM, 18XY-J, 34XY-J, 64XY-J, 110XY-J – ODAC 13TRIO-J, 33TRIO-J, 63TRIO-J, 113TRIO-J				
Interface Service	Ethernet TCP/IP, RJ45, 10/100BaseT, electrically isolated				
Interface Host	RS-232/-422/-485, D-sub. connector 9p./m, electrically isolated. Data rate: up to 333/s	PROFIBUS DP (RS-485), D-sub. connector 9p./f, electrically isolated. Update rate: up to 62.5/s (fast: 125/s)	Ethernet TCP/IP, 2 x RJ45, 10/100BaseT electrically isolated. Data rate: up to 333/s	PROFINET IO, 2 x RJ45 10/100BaseT electrically isolated. Update rate: up to 62.5/s (fast: 125/s)	
Interface LOC	Only for Zumbach local display LOC 01				
Interface I/F	Can be used for the connection of a remote interface (e.g. AI 4-ODAC) or as digital input for length detector (e.g. proximity switch according to EN 60947-5-6, NAMUR)				
LED Service interface	Indicates link and traffic				
LED Host interface	Indicates traffic	Indicates traffic and error	Indicates link and traffic	Indicates link, traffic, system error and bus error	
Power supply	90...265 VAC, 48...62 Hz, 20 VA				

Operation conditions / Miscellaneous	
Ambient temperature	Operating: 0...45°C (32...113°F), Transport / Storage: -20...50°C (-4...122°F)
Max. atmospheric humidity	95% (non condensing)
Altitude	0...2500 m (0...8200 ft.) over sea level
Type of protection	Case IP 65, connection plate IP 40
Weight	1.1 kg (2.43 lbs)
Dimensions	see chapter 3.5

• Technical specifications are subject to change without notice

Dimensions



Accessories

Local display LOC 01

Is mounted directly on the measuring head. Requires connection cable # ODAC.9167.00004 between LOC 01 and the measuring head. Not for ODAC J versions.

LOC.011.01000



Signal cable L2 Bus 1DR22 x 02R

For the connection between the PROFIBUS DP interface and the customer's data acquisition system. Only for DP version.

A13 252 0150

Analogue interface AI 4-ODAC

Interface with 4 analogue and 5 digital outputs. Direct connection of the digital input (proximity switch). Not for ODAC J versions.

ODAC.000.100



Connector

Counter connector for digital input "I/F". Connection of a proximity switch. It is not required, if the analogue interface AI 4-ODAC is already used. Not for ODAC J versions.

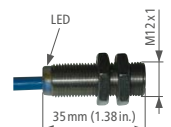
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Proximity switch

The proximity switch is used for the length detection. Main data:
 – Standard: EN 60947-5-6 (NAMUR, NC)
 – Switching distance max. 2 mm (.08 in.), flush mounting
 – Ambient temperature: -25...100°C (-13...212°F)
 – Protection: IP 67, Connection: PVC cable 2 m (6.5 ft.)

A16 100 0110



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