



ERI1809-002x | 16-channel digital input 24 V DC

The ERI1809 IO-Link box with digital inputs acquires the binary control signals from the process level and transmits them, in an electrically isolated form, to the controller. The state of the signals is indicated by light emitting diodes. The signals are optionally connected via M8 (ERI1809-0021) or M12 (ERI1809-0022) screw type connectors.

The IO-Link box modules with zinc die-cast housing are ready for use in harsh industrial and process environments. With the fully sealed design and metal surfaces the ERI series is ideal for applications requiring enhanced load capacity and protection against weld spatter, for example.

Technical data	ERI1809-0021	ERI1809-0022
Communication	IO-Link	
Data transfer rates	230.4 kbaud (COM 3)	
Specification version	IO-Link V1.1, Class A	
Number of inputs	16	
Input connections	M8, screw type	M12, screw type
Interfaces	1 x M12 plug, A-coded	
Nominal input voltage	24 V DC (-15 %/+20 %)	
Input filter	3.0 ms (default), adjustable 0...20 ms	
"0" signal voltage	-3...+5 V (EN 61131-2, type 3)	
"1" signal voltage	11...30 V (EN 61131-2, type 3)	
Input current	typ. 3 mA (EN 61131-2, type 3)	
Sensor supply	max. 0.5 A total, U_{S1} (derived from L+), short-circuit proof	
Bit width in the process image	16 inputs	
Current consumption	typ. 100 mA from L+	
Operating/storage temperature	-25...+60 °C/-40...+85 °C	
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27	
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4	
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable	
Approvals	CE, UL	

Related products	
EP6228	EtherCAT Box, industrial housing, 8-channel IO-Link master, IP 67
EP6224	EtherCAT Box, industrial housing, 4-channel IO-Link master, IP 67
EL6224	EtherCAT Terminal, IO-Link master, IP 20
KL6224	Bus Terminal, IO-Link master, IP 20