IO-Link interface Class B

IO-Link status LED

M8 I/O connection sockets

Signal status display

Labelling areas

Power supply status display:
LED 24 V (L+)

LED (2L+)

ERI2809-0021

3-wire 2-wire

I/O connection

Connector assignment

1	L+
2	P24
3	L-
4	C/Q
5	N24

1	+ 24 V DC 2L+
3	GND
4	Output

ERI2809-002x | 16-channel digital output 24 V DC, I_{max} = 0.5 A ($\sum$ 4 A)

The ERI2809 IO-Link box with digital outputs connects the binary control signals from the controller on to the actuators at the process level. The 16 outputs handle load currents of up to 0.5 A each, although the total current is limited to 4 A. This makes these modules particularly suitable for applications in which not all of the outputs are active at the same time, or in which not all of the actuators draw 0.5 A current.

The signal state is indicated by means of light emitting diodes. The signals are optionally connected via M8 (ERI2809-0021) or M12 (ERI2809-0022) screw type connectors. All outputs are short-circuit proof and protected against inverse connection.

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	ERI2809-0021	ERI2809-0022
Communication	IO-Link	
Data transfer rates	230.4 kbaud (COM 3)	
Specification version	IO-Link V1.1, Class B	
Number of outputs	16	
Output connections	M8, screw type	M12, screw type
Interfaces	1 x M12 plug, A-coded	
Load type	ohmic, inductive, lamp load	
Nominal output voltage	24 V DC (-15 %/+20 %)	
Max. output current	0.5 A per channel, individually short-circuit proof, $\sum$ 4 A	
Short circuit current	typ. 1.5 A	
Current consumption	typ. 100 mA from L+	
Auxiliary power current	typ. 20 mA + load	
Bit width in the process image	16 outputs	
Electrical isolation	L+/2L+: yes	
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