



IE232x, IE233x | 4 x digital input + 4 x digital output 24 V DC, I_{MAX} = 2 A

The IE23xx digital I/O modules combine four digital inputs and four digital outputs in one device. Various filter constants are available for the inputs. The outputs handle load currents of up to 2 A, are short-circuit-proof and protected against inverse polarity. The total current for all four outputs 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 2 A signal current. The state of each signal is indicated by means of light emitting diodes. The signals are connected optionally via 8 mm diameter snap types (IE2320, IE2330), M8 (IE2321, IE2331) or M12 (IE2322, IE2332) screw type connectors.

Technical data	IE2320	IE2321	IE2322
Number of channels	4 inputs + 4 outputs		
Input/output connections	8 mm, snap type	M8, screw type	M12, screw type
Input filter	3.0 ms		
"0" signal voltage	-3...+5 V		
"1" signal voltage	11...30 V, 6 mA input current (EN 61131-2, type 2)		
Actuator/sensor supply	derived from control voltage, max. 0.5 A total, short-circuit-proof		
Load type	ohmic, inductive, lamp load		
Rated load voltage	24 V DC (-15 %/+20 %)		
Max. output current	2 A per channel, individually short-circuit safe, total current max. 4 A		
Short circuit current	typ. 4 A		
Auxiliary power current	typ. 30 mA per channel		
Current consumption from Us (without sensor current)	25 mA		
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin		
Bit width in the process image	4 inputs + 4 outputs		
Electrical isolation	channels/control voltage: no, between the channels: no, control voltage/fieldbus: yes, via IP-Link		
Operating/storage temperature	0...+55 °C/-25...+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		

Technical data	IE2330	IE2331	IE2332
Number of channels	4 inputs + 4 outputs		
Input/output connections	8 mm, snap type	M8, screw type	M12, screw type
Input filter	0.2 ms		
"0" signal voltage	-3...+5 V		
"1" signal voltage	11...30 V, 6 mA input current (EN 61131-2, type 2)		
Actuator/sensor supply	derived from control voltage, max. 0.5 A total, short-circuit-proof		
Load type	ohmic, inductive, lamp load		
Rated load voltage	24 V DC (-15 %/+20 %)		
Max. output current	2 A per channel, individually short-circuit safe, total current max. 4 A		
Short circuit current	typ. 4 A		
Auxiliary power current	typ. 30 mA per channel		
Current consumption from Us (without sensor current)	25 mA		
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin		
Bit width in the process image	4 inputs + 4 outputs		
Electrical isolation	channels/control voltage: no, between the channels: no, control voltage/fieldbus: yes, via IP-Link		
Operating/storage temperature	0...+55 °C/-25...+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		