



IE100x, IE101x | 8-channel digital input 24 V DC

The IE10xx digital input modules acquire the binary control signals from the process level and transmit them to the higher-level automation unit. The state of the signals is indicated by light emitting diodes. The signals are optionally connected via 8 mm snap type (IE1000, IE1010), M8 (IE1001, IE1011) or M12 (IE1002, IE1012) screw type connectors. These versions are distinguished by input filters of different speeds.

The sensors are supplied from the box supply voltage U_s . The auxiliary voltage U_P is not used in the input module, but may be connected in order to be relayed downstream.

Technical data	IE1000	IE1001	IE1002
Number of inputs	8		
Input connections	8 mm, snap type	M8, screw type	M12, screw type
Nominal input voltage	24 V DC (-15 %/+20 %)		
Input filter	3.0 ms		
"0" signal voltage	-3...+5 V (EN 61131-2, type 2)		
"1" signal voltage	11...30 V (EN 61131-2, type 2)		
Input current	typ. 6 mA (EN 61131-2, type 2)		
Sensor supply	from control voltage, max. 0.5 A total, short-circuit-proof		
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	8 inputs		
Current consumption from U_s (without sensor current)	25 mA		
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	IE1010	IE1011	IE1012
Number of inputs	8		
Input connections	8 mm, snap type	M8, screw type	M12, screw type
Nominal input voltage	24 V DC (-15 %/+20 %)		
Input filter	0.2 ms		
"0" signal voltage	-3...+5 V (EN 61131-2, type 2)		
"1" signal voltage	11...30 V (EN 61131-2, type 2)		
Input current	typ. 6 mA (EN 61131-2, type 2)		
Sensor supply	from control voltage, max. 0.5 A total, short-circuit-proof		
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	8 inputs		
Current consumption from Us (without sensor current)	25 mA		
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		