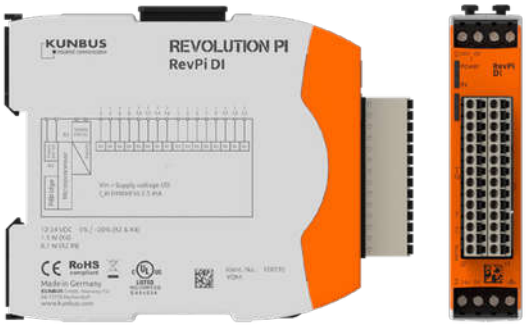
REVOLUTION PI

RevPi DI

Article No.: 100195



Technical Data

Housing dimensions (H x W x D)	96 x 22.5 x 110.5 mm
Housing type	DIN rail housing (for DIN rail version EN 50022)
Housing material	Polycarbonate
Weight	approx. 100 g / 130 g (incl. connectors)
IP Code	IP20
Power supply	12-24 VDC -5 % / +20 % (X2 and X4) [1]
Max. power consumption	1.5 Watt (X4/power supply)
Operating temperature	-40 °C....+55 °C
Storage temperature	-40 °C....+85 °C
Humidity (at 40 °C)	93 % (non-condensing)
Connectors	2 x 4-pole screw-type terminal for power supply 2 x 14-pin socket connectors with spring clamp contacts (0.2 - 1.5 mm²) for IOs, pitch 3.5 mm (Wieland Item No. 27.630.4453.0)
Optical indicator	3 status LEDs (bi-color)
Number of digital input channels	16
Input type	Galvanically isolated from the system bus, individually configurable as direct digital input, counter rising edge, counter falling edge or together with neighboured input as encoder [2]
Input current limitation	2.4 mA (at 24 V power supply)
Input thresholds	At 24 V compatible according to EN 61131-2 to Type I and III sensors
Digital debounce circuit	Collectively adjustable for all inputs: off, 25 µs, 750 µs or 3 ms
Maximum frequency resolution of the counter inputs	2 kHz (corresponding to 500 Hz encoder sequence)
Alarm	For auxiliary voltages below 19 V and below 9 V, overtemperature
Input protection	According to EN 61131-2 (IEC 61000-4-4, -5, -6, and -2) against burst, RF injection, external voltages from -3 V to +36 V

[1] Two independent supply voltage sources must be available for galvanic isolation of the inputs.

[2] For each module, a maximum of 6 inputs can be defined as 6 counters or 12 inputs as 6 decoders. Counters and decoders are stored as 32-bit integers in the process image. Reset of counters/encoders via ioctl calls from the kernel driver piControl.

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Compatible modules for system expansion	All RevPi base module, expansion modules and RevPi Gate modules (connected via overhead PiBridge connector)
Protection of the power supply inputs	Reverse polarity protected, transient overvoltages
Conformity	CE, RoHS
UL certification	Yes, UL-File-No. E494534
Surge/Burst tests	Passed (according to EN 61131-2 and IEC 61000-6-2)