

B&R - X20 System**X20DI2377**

Digital Input and Counter Module

Product identity and technical data

Digital inputs	2
Nominal input voltage	24 VDC
Input voltage	24 VDC -15%/+20%
Input circuit	Sink
Connection type	3-wire connections
Event counters	2 × 16-bit, maximum 50 kHz
Gate measurement	One channel at a time; input 1 or input 2
Software input filter	Default 0 ms; configurable 0 to 25 ms in 0.2 ms increments
Sensor supply	24 VDC and GND; 0.5 A total; short-circuit proof
Compatible terminal blocks	X20TB06 or X20TB12, ordered separately
Compatible bus modules	X20BM11 or X20BM15, ordered separately
Degree of protection	IP20
Operating temperature	-25 to 60 °C horizontal; -25 to 50 °C vertical

Documented role

B&R X20DI2377 is a 2-channel 24 VDC sink digital input module with 50 kHz event counting and single-channel gate measurement for the X20 System.

Documented applications

- High-speed event counting from 24 VDC pulse sensors in X20 control systems
- Gate-time measurement for pulse-width or timing acquisition on one selected channel
- Digital sensor monitoring in industrial and process-control equipment

Selection and installation checks

X20DI2377 requires a separately ordered terminal block and X20 bus module; verify the complete material number, input-circuit polarity, sensor wiring, filter settings, power group, Automation Studio configuration, and environmental conditions before replacement.