

B&R - X20 System**X20CM8281**

Universal Mixed I/O Module

Technical specifications

Digital inputs	4 sink inputs, 24 VDC
Digital input filter	Default 1 ms; configurable 0 to 25 ms in 0.2 ms increments
Digital outputs	2 current-sourcing FET outputs, 24 VDC, 0.5 A each
Analog input	1 single-ended input, ± 10 V or 0 to 20 mA / 4 to 20 mA
Analog input resolution	Voltage ± 12 -bit; current 12-bit
Analog input conversion time	400 μ s, asynchronous to X2X Link cycle
Analog output	1 output, ± 10 V or 0 to 20 mA
Analog output resolution	12-bit
Analog output conversion time	300 μ s, asynchronous to X2X Link cycle
Event counters	2 cyclic 16-bit counters, maximum 20 kHz
Gate-time measurement	1 input, 16-bit counter
Analog conversion procedure	Successive approximation
Electrical isolation	Channels isolated from bus; channels not isolated from one another
Required terminal block	X20TB12, ordered separately

Documented role

B&R X20CM8281 is a universal mixed I/O module combining four digital inputs, two digital outputs, one analog input, one analog output, and counter functions for the X20 System.

Documented applications

- Compact machine stations requiring mixed digital and analog I/O
- Pulse-event counting from sensors or encoders up to 20 kilohertz
- Gate-time measurement combined with analog monitoring and control

Selection and installation checks

X20CM8281 combines digital, analog, and counter functions; verify analog terminal mode, external loop power, output load, counter edge and gate settings, X20TB12, compatible bus module, and saved Automation Studio channel mapping.