



B&R X67 system – Mount, connect and you're ready to go

ETHERNET
POWERLINK

open
SAFETY

PROFI
NET

PROFI
BUS

EtherNet/IP

DeviceNet

CANopen

Modbus

Remote I/O with IP67 protection

With a credit card design and IP67 rating providing protection in the harshest industrial environments, this new dimension in remote I/O technology can be installed directly in the machine room, freeing up valuable space in the control cabinet and working just as fast as a centralized solution. Experience ultimate freedom in your choice of communication fieldbus with the advanced X67 I/O system.

Traditional I/O systems are located centrally in the control cabinet, with extensive wiring required for sensors and actuators. In addition, modular machine designs often require intermediate connections with multi-pin connectors. Remote I/O modules can only reach their full potential, however, if additional distribution boxes can be eliminated completely. This is why the optimal solution has to include I/O modules with robust IP67 protection that can be placed directly in harsh industrial environments.

Reduced wiring

Instead of having to extensively wire each individual sensor or actuator to the control cabinet over long distances, the X67 system reduces the amount of work down to a single bus cable and a 24 VDC power supply. This applies to the entire machine and cuts costs considerably.

The shortest commissioning times

Pre-assembled standard cables make it possible for the mechanic to make the necessary connections himself, relegating wiring errors to history where they belong. Commissioning can begin immediately when machine construction is started, with time-consuming inspection of the wiring no longer necessary.

Minimized service costs

Correcting errors is easy since individual sensors and actuators can be quickly replaced using plug connections. Extensive diagnostic functions allow errors to be detected immediately.

One system for all machine designs

Whether a compact machine or an extensive system, this I/O system can be adapted to the machine's architecture to meet every possible demand.

Highlights

- Compact and ergonomic
- IP67 protection
- Excellent EMC properties
- Open for all fieldbus systems
- Seamless integration of IP20-rated I/O

Integrated automation Global presence Solid partnership



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X67 I/O System overview

PERFECTION IN AUTOMATION
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X67



Digital inputs/outputs →

Digital inputs
24 VDC

Digital outputs
24 VDC

Digital inputs/outputs
24 VDC

Valve control
24 VDC

M8 standard	M8 high-density
X67DI1371 8 inputs Sink	X67DI1371.L08 16 inputs Sink
X67DI1372 8 inputs Source	
X67DO1332 8 outputs 2 A nominal output current Source	-
X67DM1321 8 inputs/outputs 0.5 A nominal output current Software filter Event counter Gate measurement	X67DM1321.L08 16 inputs/outputs 0.5 A nominal output current Software filter Event counter Gate measurement
X67DM9321 8 inputs/outputs 0.5 A nominal output current Software filter Node number switch Event counter Gate measurement	
-	X67DV1311.L08 16 inputs, sink, software filter 16 outputs, source 0.1 A nominal output current

Digital inputs/outputs →

Digital inputs
24 VDC

Digital outputs
24 VDC

Digital inputs/outputs
24 VDC

Valve control
24 VDC

M12	M12 high-density
-	X67DI1371.L12 16 inputs Sink
-	X67DO9332.L12 8 outputs 2 A nominal output current Source Node number switch
	X67DM1321.L12 16 inputs/outputs 0.5 A nominal output current Software filter Event counter Gate measurement
-	X67DM9321.L12 16 inputs/outputs 0.5 A nominal output current Software filter Node number switch Event counter Gate measurement
	X67DM9331.L12 8 inputs/outputs 2 A nominal output current Software filter Node number switch
7XV108.50-51 8 valves	X67DV1311.L12 16 inputs, sink, software filter 16 outputs, source 0.1 A nominal output current
7XV108.50-62 8 valves	
7XV116.50-51 16 valves	
7XV116.50-62 16 valves	
7XV124.50-51 24 valves	
7XV124.50-61 24 valves	
7XV124.50-62 24 valves	

Analog inputs/outputs →

Analog inputs
±10 V

Analog inputs
0 to 20 or 4 to 20 mA

Analog inputs
Potentiometer displacement gauge

Analog inputs
Strain gauge

Analog outputs
±10 V

Analog outputs
0 to 20 mA

Analog inputs/outputs
±10 V

Analog inputs/outputs
0 to 20 mA

Temperature resistance measurement

Temperature thermocouple

M12 standard
X67AI1223 4 inputs 12-bit
X67AI1233 4 inputs 16-bit
X67AI1323 4 inputs 12-bit
X67AI1333 4 inputs 16-bit
X67AI4850 4 inputs 14-bit
X67AI2744 2 inputs 24-bit
X67AO1223 4 outputs 12-bit
X67AO1323 4 outputs 12-bit
X67AM1223 2 inputs/2 outputs 12-bit
X67AM1323 2 inputs/2 outputs 12-bit
X67AT1311 4 inputs 16-bit PT100
X67AT1322 4 inputs 16-bit KTY10-6, KTY84-130, PT100 or PT1000
X67AT1402 4 inputs 16-bit

Miscellaneous →

Counting

Communication

Combination

Motor control

M12 standard
X67DC1198 2 SSI absolute encoders 5 VDC or 2 ABR incremental encoders 5 VDC, 4 AB counters or 4 up/down counters 24 VDC, 2x pulse width modulation, time measurement, relative timestamp
X67DC2322 2 resolver inputs, 2 digital inputs, 2 digital outputs
X67IF1121-1 1x RS232 or 1x RS485/RS422, 2 digital inputs, 2 digital channels configurable as inputs or outputs
X67UM1352 4 digital inputs, 24 VDC, sink 2 digital outputs, 24 VDC, source 0.5/1 A nominal output current 1 strain gauge
X67SM2436 2 full bridges for controlling stepper motors 2x3 inputs for ABR incremental encoder 24 to 38.5 VDC ±25% 3 A (5 A peak)
X67SM4320 4 full bridges for controlling stepper motors 24 VDC ±25% 1 A (1.5 A peak)
X67MM2436 2 channels PWM output (H bridge) 2x3 inputs for ABR incremental encoder 24 to 38.5 VDC ±25% 3 A (5 A peak)

Bus controllers →

ETHERNET POWERLINK

CAN I/O

CANopen

DeviceNet

EtherNet/IP

Modbus TCP/UDP

PROFIBUS DP

PROFINET RT

M8 standard	M8 high-density	M12 high-density
X67BC8321-1 8 digital channels configurable as inputs or outputs		X67BC8321.L12 16 digital channels configurable as inputs or outputs
X67BC8331 8 digital channels configurable as inputs or outputs	-	X67BC8513.L12 12 digital channels configurable as inputs or outputs 1 analog input, 0 to 20 mA, 12-bit
X67BC7321-1 8 digital channels configurable as inputs or outputs	-	-
X67BC4321-1 8 digital channels configurable as inputs or outputs	X67BC4321.L08-1 16 digital channels configurable as inputs or outputs	X67BC4321.L12-10 16 digital channels configurable as inputs or outputs
X67BC4321-10 8 digital channels configurable as inputs or outputs	X67BC4321.L08-10 16 digital channels configurable as inputs or outputs	
X67BC5321 8 digital channels configurable as inputs or outputs	-	-
-	-	X67BCD321.L12 16 digital channels configurable as inputs or outputs
X67BCJ321 8 digital channels configurable as inputs or outputs	-	X67BCJ321.L12 16 digital channels configurable as inputs or outputs
X67BC6321 8 digital channels configurable as inputs or outputs	X67BC6321.L08 16 digital channels configurable as inputs or outputs	X67BC6321.L12 16 digital channels configurable as inputs or outputs
-	-	X67BCE321.L12 16 digital channels configurable as inputs or outputs