

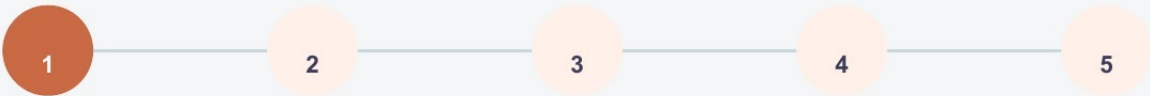
X20cDC2190

Coated Ultrasonic Path Measurement Module

CONTROLLED ENGINEERING COPY

B&R X20cDC2190 is a coated ultrasonic path measurement module for the documented X20 System installation.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	X20cDC2190
Manufacturer	B&R
System family	X20 System
HS code	8537101190
Shipping origin	Xiamen,Fujian,China



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01 PRE-INSTALLATION PLAN

1

Confirm the complete B&R X20cDC2190 marking and installed X20 System position before work.

2

Place the machine or process in the approved maintenance state and isolate every applicable energy source.

3

Record two path-measurement rods and four path recorders, terminal assignments, shielding and protective-ground connections before removal.

4

Use ESD controls and protect keyed connectors, terminals and exposed electronics from contamination.

5

Verify path rods (2) against the installed project and connected hardware.

MATCHED HARDWARE

- X20cDC2190 with complete identity
- coated X20 I/O station
- two path-measurement rods and four path recorders
- Controlled commissioning and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	X20cDC2190 recorded
Physical interface	Probe, cable and sensor matched
Functional proof	Static gap and dynamic response

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Path rods	2
Path recorders	4
Speed measurement	Supported
Encoder supply	24 VDC, maximum 150 mA
Path resolution	0.01 mm
Path range	+/-5.2 m
Speed resolution	0.1 mm/s
Speed range	+/-3.2 m/s
Input/output level	RS422 differential

FIELD NOTE

Confirm B&R X20cDC2190, coated X20 I/O station, two path-measurement rods and four path recorders, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

RELATED APTER POWER PAGES

[330801-28-00-115-03-02](#)
[330908-00-15-10-02-05](#)
[43501-01-04-01](#)
[330190-XXX-00-05-173679-13](#)
[330878-51-00](#)
[330180-X1-05-MOD-145655-09](#)
[168209-0317-127-90-05-01](#)
[143493-00-080-080-70-00](#)

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	X20cDC2190
Physical interface	two path-measurement rods and four path recorders matched
Configuration	Exact installed configuration and assignments restored
Functional proof	Controlled ultrasonic path and speed measurement response recorded

04 RETURN-TO-SERVICE RECORD

- ☐ Verify path rods (2) against the installed project and connected hardware.
- ☐ Verify path recorders (4) and restore only the approved configuration.
- ☐ Energize in the prescribed sequence and review module, host and network diagnostics.
- ☐ Complete a controlled ultrasonic path and speed measurement test and retain the acceptance result before production release.

VERIFICATION RECORD

PRODUCT IDENTITY	X20cDC2190
INSTALLED POSITION	Documented coated X20 I/O station position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Confirm the exact model remains assigned to the documented host position.
- ☐ Verify every mating interface and field connection against the as-found record.
- ☐ Exercise the intended product function under controlled conditions.
- ☐ Retain the diagnostic and functional-test result before release.

SOURCE IDENTIFIERS

B&R X20cDC2190 product data | Data sheet X20(c)DC2190