

INDUSTRIAL AUTOMATION PRODUCT

X20cDC2190

Coated Ultrasonic Path Measurement Module

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

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	X20 System
Part number	X20cDC2190
Origin / HS	Austria / 8537101190
Shipping origin	Xiamen,Fujian,China

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

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

FUNCTION 1
Provides ultrasonic path and speed measurement

FUNCTION 2
Uses exact B&R article identity X20cDC2190

FUNCTION 3
Matches path rods: 2

FUNCTION 4
Matches path recorders: 4

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	X20 System
02	coated X20 I/O station
03	two path-measurement rods and four path recorders
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	X20 System
Interface role	ultrasonic path and speed measurement
Field / power context	coated X20 I/O station
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 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.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE
Path rods	2
Path recorders	4
Speed measurement	Supported
Encoder supply	24 VDC, maximum 150 mA
Path resolution	0.01 mm

PARAMETER	VALUE
Path range	+/-5.2 m
Speed resolution	0.1 mm/s
Speed range	+/-3.2 m/s
Input/output level	RS422 differential

ENGINEERING BOUNDARY

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.

PRE-INSTALLATION CHECKS

- 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
- 4

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

Applications and Engineering Context

X20 System system maintenance

Restores ultrasonic path and speed measurement in the documented installation.

Controlled hardware replacement

Preserves the exact X20cDC2190 identity and approved configuration.

Interface verification

Confirms two path-measurement rods and four path recorders before energization.

Functional recommissioning

Reviews diagnostics and records the controlled system response.

TECHNICAL 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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	X20cDC2190 recorded
Host / carrier	X20 System
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

IMPORTANT NOTICE

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 Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER	
01	Bently Nevada 330102-00-52-10-01-05
02	Bently Nevada 330702-00-25-10-11-05
03	Bently Nevada 330881-16-11-165-07-02
04	Bently Nevada 330880-16-00-021-03-02
05	Bently Nevada 330901-00-14-10-02-00
06	Bently Nevada 330901-00-32-10-02-00
07	Bently Nevada 330909-00-60-10-01-00
08	Bently Nevada 330801-28-00-050-03-02

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

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

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