

X20SC0842

X20 safe digital mixed module

CONTROLLED ENGINEERING COPY

Confirm SafeDESIGNER channel mapping, test-pulse assignment, output load and proof-test sequence before enabling the safety application.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	X20SC0842
Manufacturer part	X20SC0842
Hardware type	8 Type A
System family	B&R X20 safety I/O



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01 PRE-INSTALLATION PLAN

- 1

Verify the full X20SC0842 marking and its assigned B&R X20 safety I/O position before work.
- 2

Place the connected machine or process in the approved maintenance state.
- 3

Isolate the applicable supply and safe digital inputs and 24 v dc safety outputs field energy before disconnecting conductors.
- 4

Record connector, conductor, address and software identities before removal.
- 5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

MATCHED HARDWARE

- X20 safety bus base
- 24 V DC safety field circuits
- SafeLOGIC project
- approved safety sensors and final elements

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	X20SC0842 / X20SC0842 recorded
Physical interface	X20 safety bus base
Companion check	24 V DC safety field circuits
Functional proof	Acquires eight safe Type A inputs
Application test	Emergency-stop input and output control

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Safe inputs	8 Type A
Pulse outputs	4; 24 V DC
Safe outputs	4 Type A; 24 V DC; 3 A
Safe low-current outputs	2 Type B2; 24 V DC; 50 mA
OSSD test-pulse duration	<500 us
Protection	SIL 3; Cat. 4 / PL e

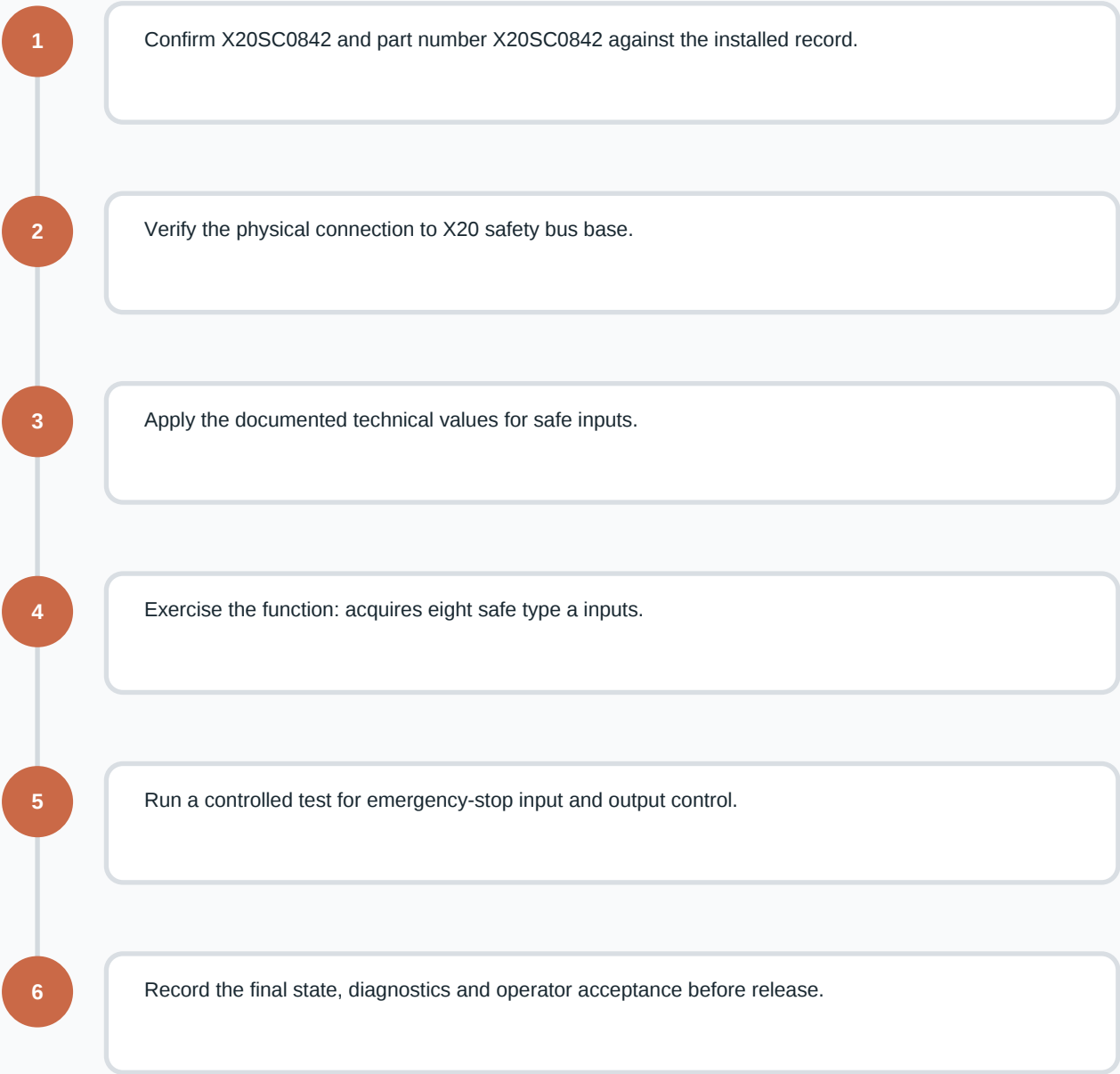
SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	X20 safety bus base
Companion hardware	24 V DC safety field circuits
Field connection	SafeLOGIC project
Primary system function	Acquires eight safe Type A inputs
Controlled acceptance duty	Emergency-stop input and output control

FIELD NOTE

Confirm SafeDESIGNER channel mapping, test-pulse assignment, output load and proof-test sequence before enabling the safety application.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	X20SC0842 / X20SC0842 recorded
Physical interface	X20 safety bus base
Companion check	24 V DC safety field circuits
Functional proof	Acquires eight safe Type A inputs
Application test	Emergency-stop input and output control

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed X20 safety bus base and 24 V DC safety field circuits against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended emergency-stop input and output control function and retain the final test result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	X20SC0842
INSTALLED POSITION	Documented B&R X20 safety I/O position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
A5E00297628	Related industrial automation product	View A5E00297628 page
A5E03915589	Related industrial automation product	View A5E03915589 page
A5E36228241	Related industrial automation product	View A5E36228241 page
A5E00282044	Related industrial automation product	View A5E00282044 page
330901-00-90-10-02-05-953416	Related industrial automation product	View 330901-00-90-10-02-05-953416 page
330330-080-01-00	Related industrial automation product	View 330330-080-01-00 page
330330-070-00-00	Related industrial automation product	View 330330-070-00-00 page
330854-080-05	Related industrial automation product	View 330854-080-05 page

SOURCE IDENTIFIERS

- B&R official product data sheet
- B&R product data

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