

INDUSTRIAL AUTOMATION PRODUCT

X20SC0842

X20 safe digital mixed module

Safe digital inputs and 24 V DC safety outputs

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	B&R X20 safety I/O
Part number	X20SC0842
Country	Austria
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named B&R product record.

PARAMETER	TECHNICAL 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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED 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

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System Role and Architecture

Safe digital inputs and 24 V DC safety outputs

FUNCTION 1

Acquires eight safe Type A inputs

FUNCTION 2

Provides four 3 A safe Type A outputs

FUNCTION 3

Provides two safe low-current Type B2 outputs

FUNCTION 4

Supports OSSD test-pulse diagnostics

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
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

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Applications and Engineering Context

Emergency-stop input and output control

Acquires eight safe Type A inputs

Guard-door safety monitoring

Provides four 3 A safe Type A outputs

Safety-valve command

Provides two safe low-current Type B2 outputs

Distributed safety I/O renewal

Supports OSSD test-pulse diagnostics

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

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Engineering Precautions

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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC752SPL013	Related industrial automation product	View IC752SPL013 page
KJ2005X1-SQ1-12P6383X022	Related industrial automation product	View KJ2005X1-SQ1-12P6383X022 page
3500-05-01-01-01-00-01	Related industrial automation product	View 3500-05-01-01-01-00-01 page
330180-X1-00-MOD-145004-09	Related industrial automation product	View 330180-X1-00-MOD-145004-09 page
A5E00296878	Related industrial automation product	View A5E00296878 page
A5E34612879	Related industrial automation product	View A5E34612879 page
A5E00825002	Related industrial automation product	View A5E00825002 page
A5E00755411	Related industrial automation product	View A5E00755411 page

MANUFACTURER SOURCE RECORD

B&R official product data sheet

B&R product data

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