



Product Service

EG-Baumusterbescheinigung

Nr. M6A 17 04 41745 010

Zertifikatsinhaber: Bernecker + Rainer
Industrie-Elektronik Ges.m.b.H.
B&R Strasse 1
5142 Eggelsberg
ÖSTERREICH

Produkt: Automatisierungsgeräte, sicherheitsgerichtete

Modell(e): B&R-Safety-System: SafeLOGIC, SafeIO

Kenndaten:

Versorgungsspannung:	24 V
SIL 3:	IEC 61508-1(ed.2) IEC 61508-2(ed.2) IEC 61508-3(ed.2) IEC 61508-4(ed.2) IEC 61511-1(ed.1) EN 62061:2005/A1:2013 EN ISO 13849-1:2015 IEC 61131-2(ed.3)
PL e, Cat. 4:	

Diese EG-Baumusterbescheinigung bestätigt die Übereinstimmung des bezeichneten Anhang IV-Produktes mit den einschlägigen Bestimmungen gemäß Artikel 12(3) b bzw. 12(4) a der Richtlinie des Rates 2006/42/EG für Maschinen. Prüfgrundlage ist ausschließlich das zur Prüfung vorgestellte Prüfmuster sowie dessen technische Dokumentation. Umseitige Hinweise sind zu beachten.

Prüfbericht Nr.: BE85343T

Gültig bis: 2022-04-12

Datum, 2017-04-13

(Guido Neumann)



TÜV SÜD Product Service GmbH ist benannte Stelle gemäß der Richtlinie des Rates Nr. 2006/42/EG für Maschinen, notifiziert durch Veröffentlichung im Amtsblatt der EG mit der Kennnummer 0123.

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Product Service

EC-Type Examination Certificate

No. M6A 17 04 41745 010

Holder of Certificate: **Bernecker + Rainer
Industrie-Elektronik Ges.m.b.H.**
B&R Strasse 1
5142 Eggelsberg
AUSTRIA

Product: **Automation Equipment, Safety Related**

Model(s): **B&R-Safety-System: SafeLOGIC, SafeIO**

Parameters:

Supply voltage:	24V
SIL 3:	IEC 61508-1(ed.2) IEC 61508-2(ed.2) IEC 61508-3(ed.2) IEC 61508-4(ed.2) IEC 61511-1(ed.1) EN 62061:2005/A1:2013 EN ISO 13849-1:2015 IEC 61131-2(ed.3)
PL e, Cat. 4:	

This EC Type Examination Certificate is issued according to Article 12(3) b or 12(4) a of Council Directive 2006/42/EC relating to machinery. It confirms that the listed Annex-IV equipment complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

Test report no.: BE85343T

Valid until: 2022-04-12

Date, 2017-04-13

(Guido Neumann)



TÜV SÜD Product Service GmbH is Notified Body according to Council Directive 2006/42/EC relating to machinery, notified by publication in the Official Journal of the EC with identification No. 0123.

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List for tracking of the version releases of components of the safety related automation system:
 Liste zur Verfolgung der Versionsfreigaben der Komponenten des sicheren Automatisierungssystems:

B&R Safety System: SafeLOGIC, SafeIO EC-Type Examination Certificate No. M6A 17 04 41745 010

Manufacturer / Hersteller

Testing body / Prüfstelle

B&R
Industrial Automation GmbH
B&R Strasse 1
5142 Eggelsberg, Austria

TÜV SÜD Rail GmbH
Barthstrasse 16
80339 München, Germany

B&R Safety System: SafeLOGIC, SafeIO
EC-Type Examination Certificate No. M6A 17 04 41745 010

List of certified SafeLOGIC versions:

Liste der zertifizierten SafeLOGIC Versionen:

No. Nr.	Product name Produktbezeichnung	Certified versions Zertifizierte Versionen		
		Hardware Revision	Firmware Version	Datasheet Version ⁽¹⁾
SL.1	X20SL8000 SafeLOGIC Standard	A3, A5, B0 C0, D0, E0, F0, G0, H0	263, 275, 284 296, 297, 299	1.51
SL.2	X20SL8001 SafeLOGIC Plus			
SL.3	X20SL8010 SafeLOGIC Standard, SafeMOTION	B0 C0, D0, E0, F0, G0, H0	274, 284, 296 297, 299	1.51
SL.4	X20SL8011 SafeLOGIC Plus, SafeMOTION			
SL.5	X20SLH000 SafeLOGIC Standard, SERCOS III Interface	B0, C0, D0, E0, F0, G0, G3, G6, G9	275 298	1.30
SL.6	X20SLH001 SafeLOGIC Plus, SERCOS III Interface			
SL.7	X20SLX210 SafeLOGIC with Safe Digital Input, 2 channel	B0, B2, C0, D0, D3, D5, E0	300, 302, 311, 313, 320, 324, 326, 330	1.140
SL.8	X20SLX410 SafeLOGIC with Safe Digital Input, 4 channel			
SL.9	X20SLX910 SafeLOGIC with Safe Digital Input, 20 channel	B0, B2, C0, D0, D3, D5, D7, E0, F0, G0	300, 302, 311, 312, 313, 320, 324, 326, 330	
SL.10	X20SL8100 SafeLOGIC Basic	B0, B2, B4, B5, B6, C0, C3, C5, C7, C9, D0, E0, F0, F3	301, 303, 304, 306, 308, 310, 311, 312, 320, 322, 324, 325, 326, 327, 329, 331	1.140
SL.11	X20SL8101 SafeLOGIC Basic with local X2X	B0, B3, C0, C3, C5, C7, D0, E0, E3	308, 310, 311, 312, 320, 322, 324, 325, 326, 327, 329, 331	1.140
SL.12	X20SL8110 SafeLOGIC Basic with IF – Slot	B3, B5, B7, C0, D0, D3	320, 322, 324, 325, 326, 327, 329, 331	1.140
SL.13	X20SLX811 SafeLOGIC with Safe Digital Input, 8 channel	B3, B5, C0, C3, D0, D3	320, 321, 322, 324, 326, 330	1.140
SL.14	X20SLX806 SafeLOGIC with 8 channel SI, 6 channel SO	B3, B5, C0, C3, D0, E0, E3	321, 322, 324, 326, 330	1.140
SL.15	X20SLX842 SafeLOGIC with 8 channel SI, 6 channel SO	B3, B5, C0, C3, D0, E0, E3		
SL.16	X20SLX402 SafeLOGIC with 4 channel SI, 2 channel SO	B1, B3, C0, C3, D0, E0, E3		

⁽¹⁾ the certificate scopes all not stated but released minor versions / das Zertifikat beinhaltet alle nicht angegebenen freigegebenen Unterversionen

⁽²⁾ not relevant / nicht relevant

⁽³⁾ xx-yy= reference to column "Hardware Revision" / Referenz zur Spalte "Hardware Revision"

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List for tracking of the version releases of components of the safety related automation system:
 Liste zur Verfolgung der Versionsfreigaben der Komponenten des sicheren Automatisierungssystems:

B&R Safety System: SafeLOGIC, SafeIO EC-Type Examination Certificate No. M6A 17 04 41745 010

Rail

Tool.1	SCMar openSAFETY Configuration Manager for X20SLX devices	---	(2)	300, 310, 312, 313, 321, 324, 325, 326, 327, 328	---	(2)
Tool.2	AsSafety Library Control & Configuration Services for SafeLOGIC devices	---	(2)	300, 301, 302, 320, 321, 323	---	(2)
Tool.3	SafeTableCheck Library Check & Configuration Services for Table handling	---	(2)	320	---	(2)
Tool.4	MpSafetyX mapp Technology for extended safety functions	---	(2)	320	---	(2)
Tool.5	SRC Help Tool Configuration Tool for SafeDesigner Robotic Libraries	---	(2)	3.61.0 3.70.0	---	(2)
cSL.1	X20cSLX210 SafeLOGIC with Safe Digital Input, 2 channel	C0, D0, D3, D5, E0		300, 302, 311, 313, 320, 324, 326, 330	1.140	
cSL.2	X20cSLX410 SafeLOGIC with Safe Digital Input, 4 channel					
cSL.3	X20cSLX910 SafeLOGIC with Safe Digital Input, 20 channel	D3, D5, D7, E0, F0, G0		300, 302, 311, 312, 313, 320, 324, 326, 330		
cSL.4	X20cSL8100 SafeLOGIC Basic	B0, B7 C3, C5, C7, C9, D0, E0, F0, F3		301, 303, 304, 306, 308, 310, 311, 312, 320, 322, 324, 325, 326, 327, 329, 331	1.140	
cSL.5	X20cSL8101 SafeLOGIC Basic with local X2X	C0, C3, C5, C7, D0, D3		308, 310, 311, 312, 320, 322, 324, 325, 326, 327, 329, 331	1.140	
cSL.7	X20cSL8110 SafeLOGIC Basic with IF – Slot	C0		320, 322, 324, 325, 326, 327, 329, 331	1.140	
cSL.8	X20cSLX811 SafeLOGIC with Safe Digital Input, 8 channel	D0, D3		324, 326, 330	1.140	
cSL.9	X20cSLX806 SafeLOGIC with 8 channel SI, 6 channel SO	D0, E0, E3		324, 326, 330	1.140	
cSL.11	X20cSLX402 SafeLOGIC with 4 channel SI, 2 channel SO	D0, E0, E3				

**List of certified SafeDESIGNER versions:
 Liste der zertifizierten SafeDESIGNER Versionen:**

No. Nr.	Product name Produktbezeichnung	Certified versions Zertifizierte Versionen ⁽¹⁾
SD.1	SafeDESIGNER SafeDESIGNER Engineering Version	2.58, 2.59, 2.70, 2.71, 2.80, 2.81, 2.82, 2.83 2.90, 2.91, 3.0.16, 3.0.17, 3.0.18 3.1.0, 3.3.0, 3.4.0, 3.4.1, 3.4.2
SD.2	SafeDESIGNER SafeDESIGNER Maintenance Version	4.1.0, 4.1.1, 4.1.2, 4.1.3 4.2.0, 4.2.1, 4.2.2, 4.2.3, 4.2.4, 4.2.5 4.3.0, 4.3.1, 4.3.2, 4.3.3, 4.3.4

**List of certified SafeDESIGNER Libraries:
 Liste der zertifizierten SafeDESIGNER Bibliotheken:**

No. Nr.	Product name Produktbezeichnung	Certified versions Zertifizierte Versionen	
		Library Name	Library Version
LIB.1	SafeDESIGNER PLCopen Library	PLCopen_SF	Version 1.00 from 09/14/07 09:09:21 Version 1.1 from 04/05/17 11:34:16
LIB.2	SafeDESIGNER Motion Library	PLCopen_Motion_SF	Version 1.1 from 12/07/09 14:09:58

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List for tracking of the version releases of components of the safety related automation system:
 Liste zur Verfolgung der Versionsfreigaben der Komponenten des sicheren Automatisierungssystems:

B&R Safety System: SafeLOGIC, SafeIO EC-Type Examination Certificate No. M6A 17 04 41745 010

Rail

LIB.3	SafeDESIGNER Motion Library, Extension for positioning functions	PLCopen_Motion_SF_2	Version 2.0 from 02/16/11 11:28:33 Version 2.1 from 02/09/12 10:31:01 Version 2.2 from 10/22/12 14:20:54 Version 3.0 from 07/05/13 08:11:42 Version 4.0 from 01/27/14 11:45:47
LIB.4	SafeDESIGNER Table Library	Table_SF	Version 1.1 from 12/14/11 13:20:22 Version 1.2 from 11/08/12 17:54:56 Version 1.3 from 07/04/13 15:25:25 Version 1.4 from 07/26/17 12:44:34
LIB.5	SafeDESIGNER Robotic Library	RoboticCtrl_SF	Version 1.0 from 02/15/12 09:30:15 Version 1.13 from 11/08/12 17:38:46 Version 1.22 from 10/03/13 14:22:56
		RoboticCtrl_SF_2	Version 0.70 from 12/16/14 12:53:40 Version 0.71 from 12/03/15 10:04:48
		RoboticCtrl_SF_3	Version 1.0 from 04/11/16 15:49:47 Version 2.0 from 09/19/16 13:17:10
		RoboticCtrl_SF_4	Version 1.0 from 04/12/18 15:53:40
LIB.6	SafeDESIGNER Utilities Libray	Utilities_SF	Version 1.0 from 07/26/13 11:16:27 Version 1.1 from 03/18/15 14:25:30 Version 1.2 from 09/30/16 07:48:59 Version 1.3 from 05/31/17 09:49:14
LIB.7	openSAFETY Motion Profile Support 3 rd party drive accessibility	openSAFETY_Motion_SF	Version 1.0 from 07/06/16 09:28:15
LIB.8	openSAFETY Motion Profile Support B&R drives extensions	openSAFETY_BuR_Motion_SF	Version 1.0 from 08/29/16 16:14:40
LIB.9	SafeDESIGNER PROFIsafe Library	SF_ProfiSafeFB_24	Version 1.0 from 05/06/15 09:42:23 Version 1.1 from 06/19/17 13:31:48
LIB.10	SafeDESIGNER SafeOPTION Library	SafeOPTION_SF	Version 1.0 from 12/14/16 08:31:57
LIB.11	SafeDESIGNER Mathematics Library	Math_Uilities_SF	Version 1.0 from 03/01/17 10:28:11
LIB.12	SafeDESIGNER User1 Utilities Library	User1_Uilities_SF	Version 1.0 from 08/08/17 13:01:22
LIB.13	SafeDESIGNER Lightcurtain Library	LightCurtain_SF	Version 1.2 from= 11/10/17 12:44:34 Version 1.3 from= 01/26/18 14:32:16
LIB.14	SafeDESIGNER DATAtoSafeDATA Transformation Library	DATA_to_SafeDATA_SF	Version 1.0 from 01/11/18 13:44:58

**List of certified SafeIO versions:
 Liste der zertifizierten SafeIO Versionen:**

No. Nr.	Product name Produktbezeichnung	Certified versions Zertifizierte Versionen		
		Hardware Revision	Firmware Version	Datasheet Version ⁽¹⁾
SA.1	X20SA4430 Safe Analog Input, 2x2 channel	B0, C0, D0, D3, E0, E3, F0	295, 301, 302, 311, 321, 322, 330	1.140
SA.2	X20ST4492 Safe Temperature Input, 2x2 channel	B0, B2, B3, B5 C0, C3, D0	295, 301, 302, 311, 321, 322, 330	1.140
SI.1	X20SI2100 Safe Digital Input, 2 channel	A9, B0, C0, D0, D3, E0, E5, F0, G0, H0, I0, J0, J3, J5, J7, K0	259, 260, 262, 272, 273, 275, 281, 290, 300, 301, 305, 320, 325, 330	1.140
SI.2	X20SI4100 Safe Digital Input, 4 channel			
SI.3	X20SI9100 Safe Digital Input, 20 channel	B0, B2, C0, D0, E0, F0, F3, F5, F7, G0, H0, I0	272, 290, 300, 301, 305, 320, 325, 330	

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List for tracking of the version releases of components of the safety related automation system:
 Liste zur Verfolgung der Versionsfreigaben der Komponenten des sicheren Automatisierungssystems:

B&R Safety System: SafeLOGIC, SafeIO EC-Type Examination Certificate No. M6A 17 04 41745 010

Rail

SI.4	9AX2X.01-000 Safe Digital Input, 8 channel SI	B0, B3, B5, B9, BA, C0	320, 322, 325, 330	1.140
SI.5	9APLK.01-000 Safe Digital Input, 8 channel SI	B0, B3, B5, B9, BA, C0		
SI.6	X20SI8110 Safe Digital Mixed with 8 channel SI	B0, B3, B5, B7, C0, D0, E0, E3	320, 322, 325, 330	1.140
SI.7	B050006543xx-yy ⁽³⁾ Safe Digital Input, 8 channel SI	00-03, 00-04, 00-05, 00-07, 00-08	320, 322, 325, 330	1.140
SI.8	B050006677xx-yy ⁽³⁾ Safe Digital Input, 8 channel SI	00-03, 00-04, 00-05, 00-07, 00-08		
SO.1	X20SO2110 Safe Digital Output, 2 channel, 0.5 A	A9, B0, C0, C3, C6, D0, D3, E0, E5, F0, G0, H0, I0, I3, J0, J3, K0, L0, M0	260, 261, 262, 274, 275, 280, 281, 300, 320, 325, 330	1.140
SO.2	X20SO2120 Safe Digital Output, 2 channel, 2 A			
SO.3	X20SO4110 Safe Digital Output, 4 channel, 0.5 A			
SO.4	X20SO4120 Safe Digital Output, 4 channel, 2 A			
SO.5	X20SO6300 Safe Digital Output, 6 channel, 0.2 A	B2, C0, D0, D3, D5, E0, F0	295, 300, 320, 325, 330	1.140
SO.6	X20SO2530 Safe Digital Output, 2 channel relay SO, 240 V	B0, C0, D0, E0, E3, E6, E9, F0, G0, H0, I0	291, 300, 320, 325, 330	1.140
SO.7	X20SP1130 Safe Digital Output, 1 channel, 10 A, Power Supply	B2, B3, B4, B7, B9, C0, D0	293, 300, 320, 325, 330	1.140
SO.8	X20SO6530 Safe Digital Output, 6 channel relay SO, 240 V	B0, B3, B5, C0	540	1.140
SC.1	X20SC2432 Safe Digital Mixed, 2 channel SI, 2 channel relay 6 A	B0, B1, C0, C5, D0, E0, F0, G0, G3, G5, G7, H0, I0, J0	271, 272, 273, 281, 290, 300, 301, 305, 320, 325, 330	1.140
SC.2	X20SC2212 Safe Digital Mixed, 6 channel SI, 2 channel SO, 0,5 A	B1, B4, C0, C3, C5, C7, D0, E0	290, 300, 301, 305, 320, 326, 330	1.140
SC.3	X20SC0806 Safe Digital Mixed with 8 channel SI, 6 channel SO	B0, B3, B5, B7, C0, D0, E0, E3	320, 322, 325, 330	1.140
SC.4	X20SC0842 Safe Digital Mixed with 8 channel SI, 6 channel SO	B0, B3, B5, C0, D0, E0, E3		
SC.5	X20SC0402 Safe Digital Mixed with 4 channel SI, 2 channel SO	B0, B3, B5, B7, C0, D0, E0, E3		
SD.1	X20SD1207 safe digital counter module, 1 failsafe counter channel, 7 kHz, 24 VDC	B6, B7, B8, B9 C0, C3, C5, D0	297, 300, 301, 310, 320, 326, 330, 331	1.140
SRT.1	X20SRT806 ReAction for Safety with 8 channel SI, 6 channel SO	B5, B7, C0	320, 327, 330	1.140
SRT.2	X20SRT842 ReAction for Safety with 8 channel SI, 6 channel SO	B5, B7, C0		
SRT.3	X20SRT402 ReAction for Safety with 4 channel SI, 2 channel SO	B3, B5, C0		
X67.1	X67SC4122.L12 Safe Digital Mixed, 8 channel SI, 4 channel SO 2 A	A6, B0, B2, C0, D0, E0, E3, E5, F0, F3, G0, H0, I0	272, 280, 290, 300, 301, 305, 320, 322, 325, 330	1.140
X67.2	X67SI8103 Safe Digital Input, 8 channel SI	B0, B2, C0, D0, D3, D5, D7, E0, F0, G0	290, 300, 301, 305, 320, 325, 326, 330	1.140
cSA.1	X20cSA4430 Safe Analog Input, 2x2 channel	C0, D0, D3, E0, E3, F0	295, 301, 302, 311, 321, 322, 330	1.140
cSA.2	X20cST4492 Safe Temperature Input, 2x2 channel	C0, C3, D0	295, 301, 302, 311, 321, 322, 330	1.140

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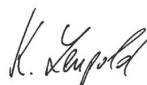




List for tracking of the version releases of components of the safety related automation system:
 Liste zur Verfolgung der Versionsfreigaben der Komponenten des sicheren Automatisierungssystems:

B&R Safety System: SafeLOGIC, SafeIO EC-Type Examination Certificate No. M6A 17 04 41745 010

Rail

cSI.1	X20cSI2100 Safe Digital Input, 2 channel	I0, J0, J3, J5, J7, K0	259, 260, 262, 272, 273, 275, 281, 290, 300, 301, 305, 320, 325, 330	1.140
cSI.2	X20cSI4100 Safe Digital Input, 4 channel			
cSI.3	X20cSI9100 Safe Digital Input, 20 channel			
cSI.4	X20cSI8110 Safe Digital Mixed with 8 channel SI	E0, E3	325, 330	1.140
cSO.1	X20cSO2110 Safe Digital Output, 2 channel, 0.5 A	I0, I3, J0, J3, K0, L0, M0	260, 261, 262, 274, 275, 280, 300, 320, 325, 330	1.140
cSO.2	X20cSO2120 Safe Digital Output, 2 channel, 2 A			
cSO.3	X20cSO4110 Safe Digital Output, 4 channel, 0.5 A			
cSO.4	X20cSO4120 Safe Digital Output, 4 channel, 2 A			
cSO.5	X20cSO6300 Safe Digital Output, 6 channel, 0.2 A	D0, D3, D5, E0, F0	295, 300, 320, 325, 330	1.140
cSO.6	X20cSO2530 Safe Digital Output, 2 channel relay SO, 240 V	B3, B5, F0, G0, H0, I0	320, 325, 330	1.140
cSO.7	X20cSP1130 Safe Digital Output, 1 channel, 10 A, Power Supply	B4, B7, B9, C0, D0	293, 300, 320, 325, 330	1.140
cSC.1	X20cSC2432 Safe Digital Mixed, 2 channel SI, 2 channel relay 6 A	G0, G3, G5, G7, H0, I0, J0	271, 272, 273, 281, 290, 300, 301, 305, 320, 325, 330	1.140
cSC.2	X20cSC2212 Safe Digital Mixed, 6 channel SI, 2 channel SO, 0,5 A	B3, B5, C0, C3, C5, C7, D0, E0	290, 300, 301, 305, 320, 326, 330	1.140
cSC.3	X20cSC0806 Safe Digital Mixed with 8 channel SI, 6 channel SO	E0, E3	325, 330	1.140
cSC.5	X20cSC0402 Safe Digital Mixed with 4 channel SI, 2 channel SO	E0, E3		
cSD.1	X20cSD1207 safe digital counter module, 1 failsafe counter channel, 7 kHz, 24 VDC	C0, C3, C5, D0	297, 300, 301, 310, 320, 325, 330, 331	1.140
cSRT.1	X20cSRT806 ReAction for Safety with 8 channel SI, 6 channel SO	C0	327, 330	1.140
cSRT.3	X20cSRT402 ReAction for Safety with 4 channel SI, 2 channel SO	C0		

	Release by Test Body: Freigabe Prüfstelle:	Release by Certification Body: Freigabe Zertifizierstelle:	Release by Manufacturer: Freigabe Hersteller:
Date: Datum:	 Digital unterschrieben von Klaus Leupold Datum: 2019.07.16 10:22:26 +02'00'	 Digital unterschrieben von Jiayi Dong Datum: 2019.07.17 11:30:26 +02'00'	
Signature: Unterschrift:			

(1) the certificate scopes all not stated but released minor versions / das Zertifikat beinhaltet alle nicht angegebenen freigegebenen Unterversionen

(2) not relevant / nicht relevant

(3) xx-yy= reference to column "Hardware Revision" / Referenz zur Spalte "Hardware Revision"

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