



Manufacturer: Issue: 8

ILECSYS Ltd Valid From: 22/07/2022

Class II FSP Switchgear Assembly (Type: FSP01 and FSP02)

Product Description

Class II FSP Switchgear Assembly (Type: FSP01 and FSP02) for Signalling Power Supplies.

Typical Product Image



NetworkRail

Scope of Acceptance

Full Acceptance

Full acceptance as per the User and Manufacturer's conditions detailed within this certificate.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:

Aamir Malik
Product Acceptance Coordinator

Felix Langley
Network Technical Head of Power Distribution HV/LV



Manufacturer: ILECSYS Ltd

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section.

Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

- 1) The Class II 'Power Block' production units shall be tested in accordance with section 4.5.2 of NR/L2/SIGELP/27409 (Class II dielectric test). Test records along with photos for each production unit shall be maintained for traceability of Class II tests.
- 2) In addition the Class II 'Power Block' production units shall be tested in accordance with Inspection & Test Report Class II rev3 and Mechanical Test Report 2.0. All Testing shall be conducted as per Inspection & Test Procedure ILS100023 rev2.3.
- 3) All Class II 'Power Block Compact' production units shall be tested in accordance with section 4.5.2 of NR/L2/SIGELP/27409 (Class II dielectric test). Test records along with photos for each production unit shall be maintained for traceability of Class II tests.
- 4) All Class II 'Power Block Compact' production units shall be tested in accordance with ILS100042 Inspection & Test Report Class II rev2.3 and ILS100042 Mechanical Test Report rev1.1. All testing shall be conducted as per the ILS100042 Test Procedure r2.4.

User

The Class II 'Power Block' product range is suitable for use as a Class II FSP Switchgear Assembly in accordance with NR/L2/SIGELP/27409.

Where Class II 'Power Block' is used in Class I installations the continuity of the protective conductors or bonding must be maintained.

Note: The use of Class II Switchgear Assemblies alone in Class I installations does not provide full protective measures as detailed in NR/L2/SIGELP/27410.

The following application criteria and installation constraints shall be complied with:

- 1) A Class II installation is satisfied if the Class II 'Power Block' is installed in conjunction with other system components in accordance with NR/L2/SIGELP/27410.
- 2) Only for use as categories FSP01 and FSP02 in accordance with NR/L2/SIGELP/27409.
- 3) Use limited to a single end fed radial system (or branch from the main distribution system) (FSP 01 & FSP02); manual reconfiguration dual end fed system (FSP02).
- 4) FSP Switchgear Assemblies for use with 2 core cable in accordance with NR/L2/SIGELP/27408 or unarmoured B2/D2 EPR cable to NR/PS/SIG/00005 or other legacy 2 core unarmoured cable.
- 5) Functional circuit protection feeding transformers shall be in accordance with approved transformer manufacturer recommendations. The use of MCB or MCCB over current protective devices in the switchgear assembly will require a product change request in accordance with Application For Configuration Change Or Update.
- 6) Not to be used in subsurface environments in accordance with section 12 stations and locations.
- 7) The Class II 'Power Block' shall not be installed in signalling distribution feeders, where the PSP outgoing or source feeder protection exceeds a BS 88 63A at AC22 or equivalent protective device.
- 8) Where Overvoltage protection is specified or fitted it shall be a Product Approved 2 Wire Overvoltage protection device in accordance with NR/L2/SIGELP/27410, or Mersen equivalent unit as detailed in the engineering case dated 20/05/2022.
- 9) Class II 'Power Block' properties suitable for installation in marine/aggressive applications.
- 10) Where Class II 'Power Block' is damaged externally and requires repair in accordance with the O&M manual, this shall be undertaken by the original manufacturer.

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11) Class II FSP Switchgear Assemblies shall not be drilled on site. Brass glands (Metallic) shall only be used with fully Insulated Adaptor Reducer, with a dielectric strength exceeding 3.5KV, in accordance with NR/L2/SIGELP/27410.

- 12) Class II FSP Switchgear Assembly (Type: FSP01 and FSP02)–ABB E90 series IEC 60269 Fuse holders shall only be used in conjunction with Signalling Transformers in accordance with NR/L2/SIGELP/30007 and shall not be used to connect to Signalling transformers in accordance with BR924A.
- 13) Power Block Compact 300 is limited to a maximum feeder cable size of 35mm² Copper (Cu) cable.
- 14) Power Block Compact 400 is limited to a maximum feeder cable size of 120mm² Copper (Cu) cable.

Product Configuration: Issue 5

Manufacturer:

Class II FSP Switchgear Assembly (Type: FSP01 and FSP02)-CAMaster BS88 Fuse-holders

Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number		
Number	2	1	Owitches	2	170112-020	Number		
PL- CII/1SW- SL	Power Block Class II distribution and OUT Is	I switch, Single ution unit rated to plators. One swi ply. Fuse-carriers	1012-020	054/213850				
	2	2	0	4	02-21-129			
PL- CII/2SW- SL	Class II distribu	Class II distribution unit rated to 690V fitted with Ring Power N and OUT Isolators. Two switched & fused output functional supplies. Fuse-carriers to be BS88 (CAMaster).						
	2	2	0	4	170327-348			
PL- CII/2SW- ESP-SL	Class II distribu IN and OUT Iso functional supp Surge Arrestor	Power Block 2 switch, Single Layer with ESP Class II distribution unit rated to 690V fitted with Ring Power IN and OUT Isolators. Two switched & fused output functional supplies. One switched & fused internal supply to Surge Arrestor. Built-in Surge Arrestor. Fuse-carriers to be BS88 (CAMaster).						
	2	3	0	6	03-12-585			
PL- CII/3SW- SL	Class II distribu	S switch, Single ution unit rated to plators. Three sy plies. Fuse-carrie		054/213853				

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Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
	2	3	0	6	02-20-314	
PL- CII/3SW- ESP-SL	Class II distribu IN and OUT Iso functional supp	ution unit rated to olators. Three so olies. One switch . Built-in Surge	e Layer with ES o 690V fitted with witched & fused hed & fused inter Arrestor. Fuse-ca	h Ring Power output nal supply to		054/213854

Class II FSP Switchgear Assembly (Type: FSP01 and FSP02)-ABB E90 series IEC 60269 Fuse-holders

Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
Hamber	2	1	0	2	03-24-403	Hamber
PL- CII/1SW- SL-IEC	Class II distribu	I switch, Single ution unit rated to plators. One swi ply. Fuse-carriers	h Ring Power utput		054/213855	
	2	2	0	4	02-22-083	
PL- CII/2SW- SL-IEC	Class II distribution IN and OUT Isofunctional supp		054/213856			
	2	3	0	6	03-10-248	
PL- CII/3SW- SL-IEC	Class II distribu	S switch, Single ution unit rated to plators. Three sy plies. Fuse-carrie		054/213857		

Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Image	Catalogue No.
	E 91/32 Fuse-disconnector for 10.3 x 38mm fuses		054/213860

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Class II FSP Switchgear Assembly (Type: FSP01 and FSP02) - Compact Range

	2	3	0	6	03-28-560	
PL- CII/3SW- SLC-35	without ESP Class II distribution IN and OUT Is	ution unit rated to olators. Three sv oly. Fuse-carriers ight 300mm	h Ring Power output		054/213858	
	2	3	0	6	03-21-348	
PL- CII/3SW- SLC-120	without ESP Class II distribution IN and OUT Is	ution unit rated to olators. Three sv olies. Fuse-carrie ight 400mm	h Ring Power output		054/213859	

Product Configuration: Issue 6 - Additional Switchgear Assembly Modules

System or Complete Assembly

ر	ystein or con	ibiere Asseilini	<u>y </u>				
	Part	Distribution	Functional	Auxiliary	Fuses	Drawing Ref/	Catalogue
	Number	Switches	Switches	Switches		Image	Number
	PL-	1	6	0	12		
	CII/6SW-					171201-1363	
	SLC-001						
		Supply Isolation and d systems, rated Full Class Assembly i Functional (10x38mm Cable size	istribution enclos current 63A II specification. insulation dielect supply fuse carr) Suitable for Co ≤35mm² s [(W x H x D) m	sure for 650V signaric strength certains - ABB IEC6 apper (Cu) 2C featurn] - 600 x 300 x	gnalling ified to 10kV 0269 eder cables	999	054/213865



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Part	Distribution	Functional	Auxiliary	Fuses	Drawing Ref/	Catalogue
Number	Switches	Switches	Switches		Image	Number
	2	6	0	12	170330-377	
PL- CII/6SW- SLC-2B	Supply Isolation and disystems, rated Full Class Assembly i Functional (10x38mm Suitable fo Cable size	II specification. nsulation dielect supply fuse carr) r Copper (Cu) 20 ≤35mm² s [(W x H x D) m		054/213866		
	1	6	0	12	03-19-100	
PL- CII/6SW- SLC- ESP/ABB	Supply with E Isolation and di systems, rated Full Class Assembly i Functional (10x38mm Supplied w Suitable fo Cable size	SP istribution enclose current 63A II specification. Il specifica	tric strength certiciers - ABB IEC6 C feeder cables mm] - 600 x 300 x	gnalling ified to 10kV 0269		054/213867
	2	3	0	6	180130-083	
PL- CII/3SW- SLC-ESP- 120	Box - 2 Functi Isolation and di systems, rated Full Class Assembly i Functional (10x38mm Supplied w Suitable for cables. Cable size Dimensions	onal Switches of istribution enclose current 63A II specification. Insulation dielect supply fuse carred) or copper (Cu) or 16-120mm² is [(W x H x D) m ding mounting b	tric strength certiciers - ABB IEC6 aluminium (AI) 2	gnalling ified to 10kV 0269 2C feeder		054/213868

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Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
Number	2	3	Owitches	6	160407-310	Number
PL- CII/3SW- SL- IEC120-A- ESP	Box - 2 Functi Switch Isolation and di systems, rated Full Class Assembly i Functional (10x38mm Supplied w Suitable for cables. Cable size Dimensional 435H inclui	Il specification. Il specification. Il specification. Il supply fuse carr If th ESP If copper (Cu) or If the second of the		054/213869		
PL- CII/4SW- SLC- IEC120	 Functional Sw Isolation ar systems, ra Full Class Assembly i Functional (10x38mm Suitable for cables. Cable size 	ritches and distribution er ated current 63A Il specification. ansulation dielect supply fuse carr ar copper (Cu) or 120mm² s [(W x H x D) m	nfigurable Switenclosure for 650° cric strength certiers - ABB IEC6 aluminium (AI) 2 cm] - 400 x 400 x	V signalling ified to 10kV 0269 2C feeder	160915-835	054/213870
	2	3	1	8	151023-748	
PL- CII/4SW- SLC- IEC120- ESP	Dual End Fed Functional Sw Isolation and di systems, rated Full Class strength ce Functional (10x38mm Supplied w Suitable for cables. Cable size	Manually Reconstruction enclose current 63A. I specification. Autified to 10kV supply fuse carred in ESP recopper (Cu) or 120mm².	nfigurable Swite Posure for 650V signates Assembly insulated iers - ABB IEC6 aluminium (AI) 2 aluminium (AII) 2 aluminium (AIII) 2 aluminium (AIIII) 2 aluminium (AIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ch Box - 3 gnalling ion dielectric 0269 2C feeder		054/213871

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Manufacturer: Issue: 8

Part	Distribution	Functional	Auxiliary	Fuses	Drawing Ref/	Catalogue
Number	Switches	Switches	Switches		Image	Number
PL- CII/4SW- SLC-IEC- 120-ESP- K4C	Functional Sw Isolation and di systems, rated Full Class See Assembly i Functional (10x38mm Supplied w Suitable for cables.	II specification. nsulation dielect supply fuse carr) rith ESP r Aluminium (AI) e 16 - 120mm²	gnalling ified to 10kV 0269	180220-149	054/213872	
	1	2	0	4	170217-162	
FSP01/2S W-SL- IEC/ESP- 95	Switch Box - 2 Isolation and di systems, rated Full Class I Assembly i Functional (10x38mm Supplied w Suitable for cables. Cable size Dimensions Weight – 8 One transfe	2 Functional Swistribution enclose current 63A II specification. Insulation dielect supply fuse carred in the ESP of copper (Cu) or 16-95mm ² is [(W x H x D) m ²)		p gnalling ified to 10kV 0269 2C feeder		054/213873
	1	2	0	4	170217-163	
FSP01/2S W-SL- IEC/ESP- 120	Switch Box - 2 Isolation and di systems, rated Full Class I Assembly i Functional (10x38mm) Supplied w Suitable for cables. Cable size Dimensions Weight - 98 One transfe	2 Functional Swistribution enclose current 63A II specification. It is supply fuse carred to the supply fuse function of the supply function o		gnalling ified to 10kV 0269 2C feeder		054/213874



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Part	Distribution	Functional	Auxiliary	Fuses	Drawing Ref/	Catalogue
Number	Switches	Switches	Switches	4	Image	Number
PL- CII/2SW- SL- IEC/ESP- 95/RING	Box - 2 Functi Isolation and d systems, rated Full Class Assembly i Functional (10x38mm Supplied w Suitable fo cables. Cable size Dimension Weight - 8i One transfe	II specification. nsulation dielect supply fuse carr) rith ESP r copper (Cu) or 16-95mm² s [(W x H x D) m	170217-164	054/213875		
	2	2	0	6	170217-165	
PL- CII/2SW- SL- IEC/ESP- 120/RING	Box - 2 Functi Isolation and d systems, rated Full Class Assembly i Functional (10x38mm Supplied w Suitable fo cables. Cable size Dimension Weight - 9i One transfe	II specification. nsulation dielect supply fuse carr) rith ESP r copper (Cu) or 35-120mm² s [(W x H x D) m	gnalling ified to 10kV 0269 2C feeder		4/213876	

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Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
	0	1	1	4	170613-639	
ILS100047 /299	 (ECB) Assemble Suitable for location ca Class II dis 63A line isc Functional (10x38mm) One switch ECB box so cable to reintegrity of Cable size Dimension Weight - 10 	r the fast and eff ses or new insta tribution unit(FS plator supply fuse carr ded and fused ou uitable for the te tain the Class II the FSP04 16-95mm² s [(W x H x D) m²	P04) rated to 69 iers - ABB IEC6 itput functional s rmination of 3 co	f 'Legacy' 0V fitted with 0269 supply ore armoured		054/213877

Product Configuration: Issue 8 – Sliding Gland Plate Modules

System or Complete Assembly

Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
	2	3	0	6	200317-5125	
PL- CII/3SW120/ GP-650V	Supply Isolation and d systems, rated • Full Class • Assembly • Functional (10x38mm (Al) 2C fee • Cable size • Dimension • Weight - 10	istribution encourrent 63A II specification insulation diele supply fuse ca) Suitable for 0 der cables ≤70mm², ≤120 s [(W x H x D)	ectric strength ce arriers - ABB IEC Copper (Cu) and Omm² with const mm] - 300 x 40	ertified to 10kV 060269 I Aluminium		054/213878



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Manufacturer: Issue: 8

Part Number	Distribution	Functional	Auxiliary	Fuses	Drawing Ref/	Catalogue	
Number	Switches 2	Switches	Switches	6	Image 210107-6479	Number	
PL- CII/3SW120- ESP-GP- 650V	FSP-01/02 Sin Supply – With Isolation and d systems, rated • Full Class • Assembly • Functional (10x38mm (Al) 2C fee • Cable size • Dimension • Weight - 10	istribution encourrent 63A II specification insulation diele supply fuse ca) Suitable for 0 der cables ≤70mm², ≤120 s [(W x H x D)	ectric strength co arriers - ABB IEC Copper (Cu) and 0mm² with const mm] - 300 x 40	signalling ertified to 10kV 060269 I Aluminium			
	2	4	0	8	201221-6416		
PL- CII/4SW120- CT/GP-650V	FSP-01/02 Single End Fed Switch Box - 4SW Functional Supply Isolation and distribution enclosure for 650V signalling systems, rated current 63A • Full Class II specification. • Assembly insulation dielectric strength certified to 10kV • Functional supply fuse carriers - ABB IEC60269 (10x38mm) Suitable for Copper (Cu) and Aluminium (AI) 2C feeder cables • Cable size ≤120mm² • Dimensions [(W x H x D) mm] - 400 x 400 x 275 • Weight - 12kg • For use with voltages up to 650V A.C.					054/213880	
	2	3	1	8	210107-6480		
PL- CII/4SW120- ESP-CT/GP- 650V	FSP-01/02 Single End Fed Switch Box - 4SW Functional Supply- With ESP Isolation and distribution enclosure for 650V signalling systems, rated current 63A • Full Class II specification. • Assembly insulation dielectric strength certified to 10kV • Functional supply fuse carriers - ABB IEC60269 (10x38mm) Suitable for Copper (Cu) and Aluminium (AI) 2C feeder cables • Cable size ≤120mm² • Dimensions [(W x H x D) mm] - 400 x 400 x 275 • Weight - 12kg • For use with voltages up to 650V A.C.				054/213881		

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Assessed Documentation

Reference	Title		Date and Applies to Cert. issue No.	
	PA05/05344 Evidence zip file (Contains NR &	Rev.	02/01/2013	ie no.
	iLecsys Folders)		02/01/2013	'
ILS100023	PA05/05344 Acceptance Requirements		undated	1
	Response (Cover Letter)		5	·
NR/SE/AR/CII	PA05/05344 Sponsors Report		12.12.2012	1
ILS100023	PA05/05344 Appendix Directory (NR &		19.11.2012	1
	iLecsys)			
ILS100023	Compliance Matrix to NR/L2/ELP/27409		15.11.2012	1
ILS100023	Compliance Matrix to BS 7671(Extract)		15.11.2012	1
ILS100023	Compliance Matrix to BS EN 61439 (Extract)		15.11.2012	1
-	Certificates folder		02/01/2013	1
-	Components (Data Sheets) folder		02/01/2013	1
-	Reports folder		02/01/2013	1
-	Supporting Documents folder		02/01/2013	1
-	Drawings (GA & Wirings) folder		02/01/2013	1
ILS100023_PA05/534 4	O&M Manual Version 1.7		09/01/2013	1
-	Images/Photographs		02/01/2013	1
-	Test Data (Additional Videos)		02/01/2013	1
-	iLecsys Test Reports Covering Letter		14.12.2012	1
19056	ISO9001:2008 certificate		20.07.2011	1
	Link up Certificate		08.01.2013	1
	PA05/05344/1 Evidence zip file (Contains		08/07/13	2
	iLecsys Change Evidence Folders)			
	PA05/05344/1 Application for Configuration Change		08/07/13	2
	PA05/05344/2 Evidence zip file (Contains		14/04/2014	4
	iLecsys Change Evidence Folders)			
	PA05/05344/2 Application for Configuration		11/07/2013	4
	Change			
03-15-129 iss B	Schematic	Iss B	29/03/2018	6
03-19-100 iss B	GA Drawing	Iss B	29/03/2018	6
151023-748 iss B	GA Drawing		29/03/2018	6
151113-813 iss A	Schematic		29/03/2018	6
160407-310 iss A	GA Drawing		29/03/2018	6
160915-835 iss A	GA Drawing		29/03/2018	6
160915-838 iss A	Schematic		29/03/2018	6
170217-162 iss A	GA Drawing		29/03/2018	6
170217-163 iss A	GA Drawing		29/03/2018	6
170217-164 iss A	GA Drawing		29/03/2018	6
170217-165 iss A	GA Drawing		29/03/2018	6
170323-331 iss A	Schematic		29/03/2018	6
170330-377 iss B	GA Drawing		29/03/2018	6
170421-464-01 iss A	Schematic		29/03/2018	6
170613-639 iss C	GA Drawing		29/03/2018	6
170821-910 iss A	Schematic		29/03/2018	6

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Reference	Title	Doc.	Date and A	pplies
		Rev.	to Cert. issu	ie No.
170821-911 iss A	Schematic		29/03/2018	6
170822-919 iss A	Schematic		29/03/2018	6
170822-920 iss A	Schematic		29/03/2018	6
170822-923 iss A	Schematic		29/03/2018	6
171201-1363 iss A	GA Drawing		29/03/2018	6
180130-083 iss A	GA Drawing		29/03/2018	6
O&M ILS100042	O&M Manual - Compact Class II Power Block	v1.5	29/03/2018	6
	Single Layer			
ILS100042 6SW	OM Manual for 6 SW Assemblies	v1.1	29/03/2018	6
Engineering case	Engineering Case for change		29/03/2018	
Safety case	Safety Case for change		29/03/2018	6
Siemens Product	Product configuration guide	_v7.0	29/03/2018	6
Guide				
	Email from Ernie Brigden requesting symbol		01/11/2019	7
	change for cable sizes to ≤ on three items			
	Folder of documentation '05344 – iLecsys		11/07/2022	8
	Gland Plate'			

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Ap	
ILS100023_PA05/053 44	O&M Manual	1.6	09/01/2013	1
ILS100042_PA05/053 44	O&M Manual	1.4	14/04/2014	4
O&M ILS100042	O&M Manual - Compact Class II Power Block Single Layer	v1.5	29/03/2018	6
ILS100042 6SW	OM Manual for 6 SW Assemblies	v1.1	29/03/2018	6

Certificate History

Issue	Date	Issue History
1	04/07/2013	First accepted for use
2	12/07/2013	Amended to include new components and new scope of acceptance as
		per configuration change request PA05/05344/1
3	27/08/2013	Scope of acceptance amended.
4	11/05/2014	Amended to include new configurations and new scope of acceptance as
		per configuration change request PA05/05344/2
5	09/10/2014	Amended to include 91/32 Fuse-disconnector for 10.3 x 38mm fuses
6	29/03/2018	Amended to include new switch assembly configurations and additional
		earth connection boxes
7	01/11/2019	Symbol change for cable sizes to ≤ on three items
8	22/07/2022	Addition of split gland plate units and addition of Mersen surge protection
		devices.



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Contact Details

Manufacturer Applicant Lead Reviewing Engineer

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the Professional Head or nominated delegate. Any alterations made by a other persons will invalidate the entire certificate.
- 2) Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.
- 3) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date via the NR sponsoring applicant.

2) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Network Rail Design for Reliability Standard(DFR) NR-L2-RSE-0005 and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Product Acceptance:
- a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
- b. Of any intended change to the accepted product; changes include:
- i. a change to the product configuration (to the actual product or its application);
- ii. a variation to or addition of manufacturing locations or processes;
- iii. a change in the name or ownership of the manufacturing company;
- iv. any changes to the ability or intention to support with technical services, spares or repairs.
- 3) The Manufacturer shall provide Network Rail Product Acceptance or National Supply Chain (NSC) at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to Network Rail Product Acceptance.
- 4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
- 5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
- 6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement, where the specification and/or Product Acceptance Certificates specify quality assurance classifications for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

3) Conditions of Use

Specifiers, installers, operators, maintainers, etc. using the product shall:

- 1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Product Acceptance.
- 2) Check that the application of use complies with the relevant certificate's scope of acceptance.
- 3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Product Acceptance.
- 4) Inform Network Rail Product Acceptance in writing of a change to the product configuration (or to the actual product or its application).
- 5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
- 6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
- 7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.



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4) Compliance

Railways and Other Guided Systems (ROGS) Regulations

- 1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsor shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations
- 2) As required in Railway Group Standard RIS-8270-RST, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:
- a. All rail vehicle types that have access rights over the area affected by the change
- b. Infrastructure managed by others
- c. Neighbours.

Railway Interoperability Regulations

- 3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.
- 4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail and Road) is required before the equipment is to be used in revenue earning service.

5) Supply Chain Arrangements

- 1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.
- 2) Products may be purchased by Network Rail or its agents, suppliers or contractors.
- 3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers.