OFFICIAL PA05/05344

Manufacturer: ILECSYS Ltd

Issue: 9 Valid From: 08/08/2022

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:

Authorised by:

erm

Steve Rennolds Product Acceptance Specialist Felix Langley Professional Head of Power Distribution HV/LV

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Manufacturer: ILECSYS Ltd

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

- 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.
- 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

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
	2	1	0	2	170112-020	
PL- CII/1SW- SL	Class II distribu	I switch, Single ution unit rated to plators. One swi oly. Fuse-carriers		054/213850		
	2	2	4	02-21-129		
PL- CII/2SW- SL	Class II distribu	2 switch, Single ution unit rated to plators. Two swi plies. Fuse-carrie		054/213851		
	2	2	0	4	170327-348	
PL- CII/2SW- ESP-SL	Class II distribu IN and OUT Iso functional supp Surge Arrestor BS88 (CAMast	2 switch, Single ution unit rated to olators. Two swi olies. One switch . Built-in Surge A er).		054/213852		
	2	3	0	6	03-12-585	
PL- CII/3SW- SL	Power Block 3 Class II distribu IN and OUT Iso functional supp		054/213853			

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Manufacture							
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 distribution IN and OUT Ison functional supp	ution unit rated to olators. Three su olies. One switch . Built-in Surge /	e Layer with ES o 690V fitted wit 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
	2	1	0	2	03-24-403	
PL- CII/1SW- SL-IEC	Class II distribu	I switch, Single ution unit rated to olators. One swi oly. Fuse-carriers		054/213855		
	2	2	0	4	02-22-083	
PL- CII/2SW- SL-IEC	Class II distribu	2 switch, Single ution unit rated to olators. Two swi olies. Fuse-carrie	h Ring Power utput		054/213856	
	2	3	0	6	03-10-248	
PL- CII/3SW- SL-IEC	Class II distribu	3 switch, Single ution unit rated to olators. Three sv olies. Fuse-carrie	o 690V fitted wit witched & fused	h Ring Power output		054/213857

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

Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
	2	3	0	6	03-28-560	
PL- CII/3SW- SLC-35	without ESP Class II distribu IN and OUT Ise	ution unit rated to olators. Three so oly. Fuse-carriers	o 690V fitted wit witched & fused s to be IEC 6026	h Ring Power output		054/213858

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Manufacture	••		v	Issue: 9 alid From: 08	3/08/2022	
Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
	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 so olies. Fuse-carrie	switch, Single o 690V fitted wit witched & fused ers to be IEC 60	h Ring Power output		054/213859

Product Configuration: Issue 6 - Additional Switchgear Assembly Modules

System or Col	mplete Assembl	у				
Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
PL- CII/6SW- SLC-001	1	6	0	12	171201-1363	
	Supply Isolation and d systems, rated Full Class Assembly i Functional (10x38mm Cable size	II specification. insulation dielec supply fuse carr) Suitable for Cc ≤35mm ² s [(W x H x D) m		054/213865		
PL- CII/6SW- SLC-2B	Supply Isolation and d systems, rated Full Class Assembly i Functional (10x38mm Suitable fo Cable size	istribution enclos current 63A II specification. insulation dielec supply fuse carr) r Copper (Cu) 2 ≤35mm ² s [(W x H x D) m	0 Box - 6SW Fun sure for 650V sig tric strength cert riers - ABB IEC6 C feeder cables nm] - 600 x 300 x	ified to 10kV 0269	170330-377	054/213866

System or Complete Assembly

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Manufacturer	:		Va	Issue: 9 alid From: 0	8/08/2022	
Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
	1	6	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 for Cable size	istribution enclos current 63A II specification. nsulation dielect supply fuse carr) ith ESP r Copper (Cu) 20 ≤35mm ² s [(W x H x D) m		054/213867		
PL- CII/3SW- SLC-ESP- 120	Box - 2 Functi Isolation and di systems, rated Full Class I Assembly i Functional (10x38mm Supplied w Suitable for cables. Cable size Dimensions	onal Switches istribution enclos current 63A II specification. nsulation dielect supply fuse carr) ith ESP r copper (Cu) or 16-120mm ² s [(W x H x D) m ding mounting b	sure for 650V sig tric strength cert iers - ABB IEC6 aluminium (AI) 2 nm] - 400 x 400 x	inalling ified to 10kV 0269 2C feeder	180130-083	054/213868

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Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
PL- CII/3SW- SL- IEC120-A- ESP	Box - 2 Functi Switch Isolation and di systems, rated Full Class I Assembly i Functional (10x38mm) Supplied w Suitable for cables. Cable size Dimensions 435H inclue Weight - 12	onal Switches we stribution enclose current 63A I specification. Insulation dielect supply fuse carrent of the ESP copper (Cu) or 16-120mm ² s [(W x H x D) me ding mounting be 2kg onal Supply with	ly Reconfigural with ESP & 650 sure for 650V sig ric strength certi iers - ABB IEC6 aluminium (AI) 2 am] - 400 x 400 x racket) n one 650V Spur	V Spur Inalling fied to 10kV 0269 2C feeder 275 (496W x		054/213869
PL- CII/4SW- SLC- IEC120	 Functional Sw Isolation ar systems, ra Full Class I Assembly i Functional (10x38mm) Suitable for cables. Cable size 	titches and distribution er ated current 63A I specification. I sulation dielect supply fuse carr copper (Cu) or 120mm ² s [(W x H x D) m	0 nfigurable Swit nclosure for 650 rric strength certi iers - ABB IEC6 aluminium (AI) 2 nm] - 400 x 400 x	/ signalling fied to 10kV 0269 2C feeder	160915-835	054/213870
PL- CII/4SW- SLC- IEC120- ESP	Functional Sw Isolation and di systems, rated • Full Class I strength ce • Functional (10x38mm) • Supplied w	titches with ESI stribution enclose current 63A I specification. A rtified to 10kV supply fuse carr ith ESP copper (Cu) or	1 nfigurable Swit P sure for 650V sig Assembly insulat iers - ABB IEC60 aluminium (AI) 2	nalling ion dielectric 0269	151023-748	054/21387 [.]

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Manufacturer	:		V	Issue: 9 alid From: 0		
Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
	2 Dual End Eod	3 Manually Poco	1 onfigurable Swit	8 ch Box - 3	180220-149	
PL- CII/4SW- SLC-IEC- 120-ESP- K4C	Functional Sw Isolation and di systems, rated Full Class Assembly i Functional (10x38mm Supplied w Suitable for cables.	vitches with ES istribution enclosi current 63A II specification. nsulation dielect supply fuse carr) ith ESP r Aluminium (AI) e 16 - 120mm ²		gnalling ified to 10kV 0269		054/213872
	1	2	0 Manually Recon	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 transfo	2 Functional Sw istribution enclosicurrent 63A Il specification. Insulation dielect supply fuse carr ith ESP r copper (Cu) or 16-95mm ² s [(W x H x D) m kg ormer functional r use with single	vitches with ES sure for 650V sig tric strength cert riers - ABB IEC6 aluminium (AI) 2 nm] - 300 x 300 x supply (SWA) e end fed feeder	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 - 9k One transfe	2 Functional Sw istribution enclosic current 63A Il specification. nsulation dielect supply fuse carr ith ESP r copper (Cu) or 35-120mm ² s [(W x H x D) m		P gnalling ified to 10kV 0269 2C feeder		054/213874

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Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
	2	2	0	4	170217-164	
PL- CII/2SW- SL- EC/ESP- 95/RING	Box - 2 Functi Isolation and di systems, rated Full Class I Assembly i Functional (10x38mm) Supplied w Suitable for cables. Cable size Dimensions Weight - 8k One transfo	onal Switches stribution enclos current 63A I specification. nsulation dielect supply fuse carr ith ESP copper (Cu) or 16-95mm ² s [(W x H x D) m	sure for 650V sig tric strength certi iers - ABB IEC6 aluminium (AI) 2 nm] - 300 x 300 x supply (SWA)	nalling fied to 10kV 0269 2C feeder		054/21387
PL- CII/2SW- SL- IEC/ESP- 120/RING	Box - 2 Functi Isolation and di systems, rated Full Class I Assembly i Functional (10x38mm) Supplied w Suitable for cables. Cable size Dimensions Weight - 9k One transfe	onal Switches stribution enclos current 63A I specification. nsulation dielect supply fuse carr ith ESP copper (Cu) or 35-120mm ² s [(W x H x D) m	sure for 650V sig tric strength certi iers - ABB IEC6 aluminium (AI) 2 nm] - 300 x 300 > supply (SWA)	nalling fied to 10kV 0269 2C feeder	170217-165	4/213876

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Part Number	Distribution Switches	Functional Switches	Auxiliary Switches	Fuses	Drawing Ref/ Image	Catalogue Number
ILS100047 /299	0 FSP01 Complete (ECB) Assemble Suitable for location ca Class II dis 63A line iso Functional (10x38mm One switch ECB box st	1 ete with ESP ar oly r the fast and eff ses or new insta tribution unit(FS olator supply fuse carr) ed and fused ou uitable for the te cain the Class II the FSP04	1 nd Earth Conne ficient upgrade o	of 'Legacy' OV fitted with 0269 Supply	170613-639	054/21387
	 Dimensions Weight - 10 Front cover 					

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 (AI) 2C fee Cable size Dimension Weight - 10	istribution enc current 63A II specification insulation diele supply fuse ca) Suitable for (der cables ≤70mm ² , ≤120 s [(W x H x D)	ectric strength ce arriers - ABB IEC Copper (Cu) and 0mm ² with const mm] - 300 x 40	signalling ertified to 10kV 260269 Aluminium raints		054/213878

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Part	Distribution	Functional	Auxiliary	Fuses	Drawing Ref/	Catalogue
Number	Switches	Switches	Switches	6	Image 210107-6479	Number
PL- CII/3SW120- ESP-GP- 650V	 FSP-01/02 Single End Fed Switch Box - 3SW 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 ≤70mm², ≤120mm² with constraints Dimensions [(W x H x D) mm] - 300 x 400 x 275 Weight - 10kg For use with voltages up to 650V A.C. 					054/213879
	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 (Al) 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 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 (Al) 2C feeder cables 054/213881 Cable size ≤120mm ² Dimensions [(W x H x D) mm] - 400 x 400 x 275 Image: Cable size size size size size size size siz					

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Manufacturer: ILECSYS Ltd

Assessed Documentation

Title Reference Doc. **Date and Applies** Rev. to Cert. issue No. PA05/05344 Evidence zip file (Contains NR & 02/01/2013 1 iLecsys Folders) PA05/05344 Acceptance Requirements 1 ILS100023 undated Response (Cover Letter) NR/SE/AR/CII PA05/05344 Sponsors Report 12.12.2012 1 ILS100023 PA05/05344 Appendix Directory (NR & 19.11.2012 1 iLecsys) Compliance Matrix to NR/L2/ELP/27409 ILS100023 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 02/01/2013 Reports folder 1 Supporting Documents folder 02/01/2013 1 Drawings (GA & Wirings) folder 02/01/2013 1 ILS100023 PA05/534 **O&M Manual Version 1.7** 09/01/2013 1 4 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 08/07/13 2 Change 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 29/03/2018 03-15-129 iss B Schematic Iss B 6 03-19-100 iss B GA Drawing lss 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 GA Drawing 6 170217-164 iss A 29/03/2018 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 29/03/2018 Schematic 6 170613-639 iss C 29/03/2018 GA Drawing 6 170821-910 iss A Schematic 29/03/2018 6 170821-911 iss A Schematic 29/03/2018 6

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Reference	Title	Doc. Rev.	Date and A to Cert. issu	
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 Single Layer	v1.5	29/03/2018	6
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 Guide	Product configuration guide	_v7.0	29/03/2018	6
	Email from Ernie Brigden requesting symbol change for cable sizes to ≤ on three items		01/11/2019	7
	Folder of documentation '05344 – iLecsys Gland Plate'		11/07/2022	8

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and A to Cert. issu	
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.
9	08/08/2022	Removal of internal fuse carrier 054/213860 from list of line-replaceable parts, but will remain on Networkrail catalogue

Manufacturer: ILECSYS Ltd

Issue: 9

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Contact Details

Manufacturer

Applicant

Peter Dickson pjd@ilecsys.co.uk Russell Cordingley Russell.Cordingley@networkrail.co.uk

Lead Reviewing Engineer

Clare Yeowart clare.yeowart@networkrail.co.uk

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.

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 Acceptance Requirements 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 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) 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 guality 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 GE/RT8270, 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 Regulation) 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.