

Manufacturer:
SNIC Rail UK

Issue : 7
Valid From : 01-04-2021

SAGEM EU & SILEC Mechanical Treadles

Product Description

The SAGEM EU treadle and old pattern SILEC treadles are mechanical treadles for Signalling applications.

SAGEM and SILEC are the names of previous manufacturers of the mechanical treadles. They no longer manufacture the treadles, but the names have become common usage. The treadles are now manufactured by SNIC Rail UK.

The SAGEM and SILEC treadles are functionally equivalent. The SAGEM treadle is a newer version which is plug coupled.

Product Image



Scope of Acceptance

Full Acceptance

Treadles accepted for national use as a discrete train detection system.

This certificate defines the Product Acceptance for the SAGEM EU treadle and the old style, SILEC, UK pattern treadle (previously accepted under grandfather rights).

The SAGEM EU mechanical treadle can be used on new installations or as a replacement for the existing old style SILEC, UK pattern, mechanical, treadle.

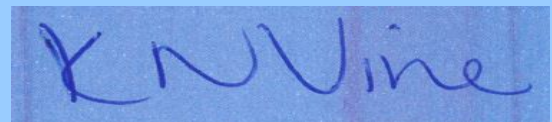
Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:



Steve Rennolds
Product Acceptance Specialist

Authorised by:



Ken Vine BSc CEng FIET FIRSE
Professional Head Level Crossings

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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) Please refer to the general terms & conditions.

User

- 1) When attaching the SAGEM EU treadle the SAGEM EU bracket shall be used.
- 2) When attaching the older style SILEC treadle either the new SAGEM EU bracket or the older SILEC bracket can be used.
- 3) Servicing or refurbishment of the treadles is not permitted. Any treadle serviced or refurbished by Henry Williams prior to 01/04/2021 may be used.
- 5) When used on d.c. 3rd rail areas, both brackets shall always be fitted at least 1m apart and to the rail furthest away from the conductor rail.
- 6) When used on non-electrified or a.c. electrified lines, the treadle shall be fitted in the conventional way, i.e. parallel to each other, on opposite rails.
- 7) A treadle gauge is available to support correct set up of the treadles, see PA05/07272 for details.

Product Configuration

SAGEM EU treadle

Part No.	Description	Catalogue No.
P10020/0001	Treadle, Cautor, single arm, non-directional, fitted with 2 c/o contacts and SNCF connector	086/046303
P10012/0001	Treadle, Forfex, double arm, (a-b & b-a) direction sensitive, fitted with SNCF connector and 2 c/o contacts (one c/o contact only operative for each direction)	086/046306
P10015/0001	Treadle, Forfex, double arm, (a-b) direction sensitive, fitted with SNCF connector and 2 c/o contacts (both c/o contact operative for a-b direction only)	086/046311
P10016/0001	Treadle, Forfex, double arm, (b-a) direction sensitive, fitted with SNCF connector and 2 c/o contacts (both c/o contact operative for b-a direction only)	086/046318
192000680	Lead, treadle, 6 core 1 sq. mm, with SNCF connector and preformed 6 way 2BA connector (3.0 metres in length)	086/044104
192000700	Lead, treadle, 6 core 1 sq. mm, with SNCF connector and preformed 6 way 2BA connector (4.5 metres in length)	086/044105
192003264	Lead, treadle, 6 core 1 sq. mm, with SNCF connector and preformed 6 way 2BA connector (6.5 metres in length)	086/044106
192000669	Lead, treadle, 6 core 1 sq. mm, with SNCF connector and preformed 6 way 2BA connector (8.0m length)	086/044107
PRYSMIAN UW91880001 C2- 1022 A	Box, double, treadle style a	086/010757
PRYSMIAN UW91870001 C2- 1022 B	Box, double, treadle style b	086/010758

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Part No.	Description	Catalogue No.
PRYSMIAN UW91860001 C2- 1022	Box, double disconnection for L.C. treadle, style c, to suit two 4 core 50/0.25 type 'c' cables	086/010759
293625320	Timing Screw	086/046375
P18024/0000	Treadle mounting treadle(silec), rail mounting, c/w fixing bolts, for 'cautor' or 'forfex' treadles, for flat bottom rail and cen 60 rail	086/046316
P18028/0000	Treadle mounting rail mounting, c/w fixing bolts, for 'cautor' or 'forfex' treadles, bull head rail	086/046317
P48002/0000	Washer resilient washer, rubber, fits between treadle and rail bracket, for silec treadle	086/046307
P20010	Cover cautor treadle	084/000204
P20006	Cover forfex treadle	084/000203

Modified FB Bracket for SILEC treadle previously accepted under PA05/04329

Part No.	Description	Catalogue No.
232900970 EU FB Standard Base and 232900988 EU FB Polyester Adapter	Modified fb bracket for SILEC treadle	088/092963

SILEC Treadles

Part No.	Description	Version No.
P10062/0001	'Cautor', single arm type, 1969 model, non-directional, fitted with 2 c/o contacts	086/046300
P10063/0001	'Forfex', double arm type, 1969 model (a-b & b-a), direction sensitive, fitted with 2 c/o contacts (one c/o contact only operative for each direction)	086/046305
P10064/0001	'Forfex', double arm type, 1969 model (a-b) direction sensitive, fitted with 2 c/o contacts (both c/o contacts operative for a-b direction only)	086/046310
P10065/0001	'Forfex', double arm type, 1969 model (b-a) direction sensitive, fitted with 2 c/o contacts (both c/o contacts operative for b-a direction only)	086/046315

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Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
6000006740-R18-000-01	SAGEM Technical Data Sheets			-
IG.SF15 EF5B31	SNCF Acceptance Letter for same product on French Railways		14 April 2009	-
P10020/0000 sheets 1-3	Drawing Electro Mechanical CAUTOR type 6900 SNCF		02/09	-
P10015/0000 sheets 1-4	Drawing Electro Mechanical FORFEX type 6901 SNCF Normale		02/09	-
P10012/0000 sheets 1-4	Drawing Electro Mechanical FORFEX type 6901 SNCF Droite		02/09	-
TIC 09117	Colchester PSB – Track Circuit 0121 SOWC after passage of train 8th April 2009, (Testing of Forfex treadle to Specification)		24/09/09	-
--	Reliability report regarding previous trial from J Tumilty, STME Ashford Depot			-
Email from Joe McGinlay	Treadle Timing Screw – endorsement from the Reliability Team to approve the new timing screw design without full design and testing details from trials undertaken in France		20/11/2012	4
Letter from Henry Williams	Obsolescence notice of old timing screw design		21/11/2012	4
Email from Alan Herron	RE: UK European Treadle SAGEM Part Nos PA Certs_21 Nov 2011		13/01/2013	4
Rev1	Timing Screw Modifications		23/01/2013	4
--	Various correspondence between Henry Williams, Reliability Team and Technology Team			4
INTR00238	BS 8020 2011 Electrical Test Certificate	-	12/06/15	5
RIA 66	Type 69 Treadle Reliability Guide	1	May 2015	5
2013.098-A1-000	Main Assembly – NWR Treadle Gauge Drawing	M6	04/04/15	5
2013.098-C2-001	Gaige Plate Large Slotted – NWR Treadle Gauge Drawing	M6	04/04/15	5
2013.098-C3-001	Father Block – NWR Treadle Gauge Drawing	M5	10/10/14	5
2013.098-C4-001	Mother Block – NWR Treadle Gauge Drawing	M6	10/10/14	5
2013/098-C5-001	Tube – NWR Treadle Gauge Drawing	M6	04/04/15	5
2013.098-C6-001	Rod – Treadle Gauge Drawing	M6	04/04/15	5
2013.098-C11-001	Twist Lock Nut – NWR Treadle Gauge	M5	08/08/14	5
2013.0098-C12-001	Blank Plate Small Slot – NWR Treadle Gauge Drawing	M6	04/04/15	5
2013.098-C13-001	Blank Plate Large Slot – NWR Treadle Gauge Drawing	M6	04/04/15	5
--	Email Alan Herron (Henry Williams) to John Walker Re compliance with BS 8020	--	20/07/15	5
Email	Re: Silec Treadle transfer to SNIC	-	22/10/19	6
Email	Re: SNIC parts numbers 1	-	09/04/20	6
Email	Re: SNIC parts numbers 2	-	14/04/20	6
-	S-ATR meeting 95 Minutes Final	-	24/11/20	7

Certificate of Acceptance

PA05/04397

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
Email	Email confirmation for parts numbers	-	16/12/20	7
-	PADS to SNIC parts numbers	-	-	7

Background Briefing Note

Issue 5:

This certificate now combines all the relevant catalogue numbers and Product Acceptance Certificates for the SAGEM Mechanical Treadle onto one certificate.
The previously accepted treadle mounted bracket (PA05/04329) and the SILEC Treadle that has been accepted under Grand Father Rights are now incorporated onto this certificate for clarity

Certificate History

Issue	Date	Issue History
1	10/05/2010	First issue of certificate.
2	13/05/2010	Second issue of certificate to take off route speed use restriction.
3	25/06/2010	Third issue of the certificate in order to clarify the specific conditions.
4	23/01/2013	Certificate re-issued to allow for fitment of new design of timing screw replacing obsolete screw found to have design limitations. Grandfather rights accepted treadles, cat no 086/046300, 086/046305, 086/046310 and 086/046315 incorporated into certificate. Treadle mounting bracket under PA05/04329 incorporated into certificate for simplicity.
5	20/07/2015	Fifth acceptance to add a new treadle gauge.
6	01/05/2020	Certificate re-issued due to change of manufacturer. Part number updates as requested by supplier. Treadle gauge moved to PA05/07272.
7	01/04/2021	Seventh issue to remove acceptance for servicing of treadles and to amend parts numbers.

Contact Details

Manufacturer

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person 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 Technology Introduction Group:
 - 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 Technology Introduction Group 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 the Network Rail Technology Introduction Group.
- 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 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 Technology Introduction Group.
- 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 Technology Introduction Group.
- 4) Inform Network Rail Technology Introduction Group 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