

**Certificate No. NESA-S090**

**Version No. 1.0**

**Approval date** 27 June 2022

**Approved by** Acting GM Technical Standards

*This certificate is issued to*

**Supplier** Frauscher Sensor Technologies Pty Ltd.  
Level 19, 31 Queen Street  
Melbourne Vic 3000

*In respect of*

**Manufacturer** Frauscher Sensortechnik GmbH | Gewerbestraße 1 | 4774 St. Marienkirchen | AUSTRIA

**Product description** Frauscher Wheel Sensor RSR123 with associated Rail Claw

**Item identification** See Approved items list

**Application** Rail Vehicle Detection System – For use between Mile End to Salisbury

**Relevant Standards** ESD-05-14, ESD-05-15, ESD-05-13

**Conditions of Approval**

- a. Only approved items listed shall be utilised.
- b. For use in accordance with ARTC standards and manufacturer's manual.
- c. Approval is limited to use RSR123 with Frauscher R2 system only on shared active pedestrian crossing on Gawler line between Mile End to Salisbury – SA.
- d. Project to ensure that cross corridor license agreement between ARTC and DIT/KD to be updated to reflect maintenance responsibilities of DIT/KD.
- e. Maintenance to be performed as per maintenance agreement between DIT/KD and ARTC asset management is in place before installation of equipment and ensure that minimum and ongoing maintenance requirements as per Frauscher are complied with.
- f. Project to ensure all processes are in place to capture requirements for removal and reinstallation of wheel sensors to ensure they are replaced in the same position.
- g. Project to ensure that RSR123 wheel sensors interfaced to the Frauscher FAdC R2 are installed where it is assured to have ARTC rollingstock suitable to Type 20 document – FAdC R2 – TSC 0xF082EEBC and 0xFC78B29D – Vehicle Type 020 – RSR123 – D6157.
- h. RSR123 wheel sensor must not be used in areas with temperature ranges outside of -40°C to +85°C.
- i. To avoid mutual interference, spacing between two RSR123 wheel sensors must be at least two sleeper bays.
- j. Clamp mounted detection heads should only be used.
- k. Wheels sensors identification name to be engraved or installed on track for correct reinstallation after removal.

**NEW EQUIPMENT AND SYSTEM  
APPROVAL CERTIFICATE**

*Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid certificate.*

**Issue date** 27/06/2022

**Expiry date** N/A

**Issued by**

**ARTC Manager Signalling Standards**

### Approved Item List

Part Number	Description	Comments
22276	Wheel Sensor RSR123 003 GS05	-
13655	Connection cable pluggable 5 m with protection tube (For RSR123)	-
14397	Connection cable pluggable 10 m with protection tube (For RSR123)	-
14398	Connection cable pluggable 25 m with protection tube (For RSR123)	-
22288	Rail Claw SK150 GS04	SK150 GS04 is compatible with all rail profiles up to 60kg
16946	Rail Claw SK150-002 GS02	SK150-002 GS02 is for rail profiles larger than 60kg