

swibox-RSE Housing for the rolling stock

Product data RSE-F30W4- xxxxxx

swibox-RSE aluminium terminal enclosures are resistant aluminium standard enclosures and have been specially developed for use in industrial and outdoor areas. Water, dust, heat, cold or mechanical shocks - the **swibox**-RSE-F30W4 enclosures are designed for such environmental conditions.

The enclosures meet the fire resistance requirements of EN 45545-3 and provide a room seal with thermal insulation of up to EI30. This makes them ideally suited for use in vehicle construction. In addition, the enclosures meet the requirements of DIN EN 45545 for railway applications. The paint finish also meets the requirements for HL3 according to EN45545.

The **swibox**-RSE-F30W4 enclosures have been tested in the system. This means they can be used with the cable entry system from **Roxtec** and the connectors from **Phoenix Contact** without further testing.

Technical data:

- Fire resistance EN 45545-3: EI30
- Protection class: IP66
- Impact resistance: IK09
- Protective insulation: I
- Earthing point in the enclosure
- Continuous operating temperature: max. +100°C
- Continuous operating temperature: min. -40°C
- Continuous operating temperature with special seal max. 140°C
- Continuous operating temperature with special seal min. -50°C
- Material cover: Aluminium type EN AC-AISi9
- Material lower part: Aluminium type EN AC- AISi9
- Material screws: Stainless steel V2 A
- Fire protection: intumescent with thermal insulation
- Housing colour: RAL 7001
- Fire test MPA Dresden P No. 20201215
- Paint EN 45545 HL 3: DB-ST-AU-17-52391-068-1.1



System components for RSE enclosures:

Roxtec

Sealing solutions for cables, pipes and conduits

Equipment manufacturers, plant constructors and end users all benefit from Roxtec cable and pipe seals. The space-saving Roxtec seals are easy to integrate and install. Feed pre-assembled cables of various sizes through each cut-out, assemble your cabinet or machine at the factory, and just add the finishing touches when delivered on site.



<https://www.roxtec.com/de/branchen/verarbeitende-industrie/schienenfahrzeuge/>

Phoenix Contact

Wherever systems and products in rail vehicles must be supplied with power and signals and data must be distributed, components from Phoenix Contact are used. Our products feature reliability and safety. And they are suitable for installation in confined spaces.

Heavy-duty connectors for gangway connections

The HEAVYCON HPR and ADVANCE housings are especially suitable for outdoor use on a rail vehicle. Featuring a robust design with IP68/IP69K degree of protection, they protect the built-in fixed-position or modular contact inserts. The connectors satisfy the stringent requirements of the railway industry. They provide a permanent and interference-free connection for electrical cables and data transmission, both inside and at the gangway connections.



Molded M12 cables for rolling stock

The M12 RAIL series from Phoenix Contact comprises sensor/actuator cabling with A-coding, Ethernet and PROFINET cabling in a 4-pos. D-coded design, and X-coded cables for high data rates (10 Gbps). These materials satisfy the fire protection requirements of DIN EN 45545-2 and can therefore be used without problem in a rail vehicle.



<https://www.phoenixcontact.com/en-gb/industries/railway-engineering/rail-vehicles>

Swibox

RSE enclosures are tested according to railway-relevant standards.

The quality and safety of our products is important to us. Therefore, Swibox enclosures are tested in external and internal test laboratories according to railway-relevant standards. We have carried out many of these tests as system tests and can therefore integrate the products of our system partners with the enclosures. A wide range of standard enclosures enables us to offer you a cost-effective solution for many applications.

On request, our design department can pre-configure the enclosures with our system products so that you only need to install your components in the RSE enclosure.

RSE-F30W4- Enclosure types

Artikelnummer:	Höhe mm:	Breite mm:	Tiefe mm:	Gewicht kg:
RSE-F30W4-01300813	125	80	125	
RSE-F30W4-01001008	100	100	80	
RSE-F30W4-01601008	160	100	80	
RSE-F30W4-01201208	122	120	80	
RSE-F30W4-02201208	220	120	80	
RSE-F30W4-02201209	220	120	90	
RSE-F30W4-03601208	360	122	80	
RSE-F30W4-01401409	140	140	90	
RSE-F30W4-01801409	180	140	90	
RSE-F30W4-02001409	200	140	90	
RSE-F30W4-01601609	160	160	90	
RSE-F30W4-02601609	260	160	90	
RSE-F30W4-03601609	360	160	90	
RSE-F30W4-05601609	560	160	90	
RSE-F30W4-01801810	180	180	100	
RSE-F30W4-02801810	280	180	100	
RSE-F30W4-02002311	200	230	110	
RSE-F30W4-02002318	200	230	180	
RSE-F30W4-02802311	280	230	110	
RSE-F30W4-03302311	330	230	110	
RSE-F30W4-03302318	330	230	180	
RSE-F30W4-04002311	400	230	110	
RSE-F30W4-06002311	600	230	110	
RSE-F30W4-04003111	400	310	110	
RSE-F30W4-04003118	400	310	180	
RSE-F30W4-06003111	600	310	110	
RSE-F30W4-06003118	600	310	180	