

HIGH SPEED
ENGINEERING

TRAIN LOG-S

EVENT RECORDER

RAIL
SYSTEMS
PEOPLE
IDEAS
A FASTER
TOMORROW

R 2850

AXIS 04

+ X 0542
Y 1287
Z 0031

+12.5°



S.I.D.E.P.
SMART ENGINEERING



FROM
CONCEPT
TO A FASTER
TOMORROW

The new event recorder specifically designed for work vehicles and shunting locomotives.

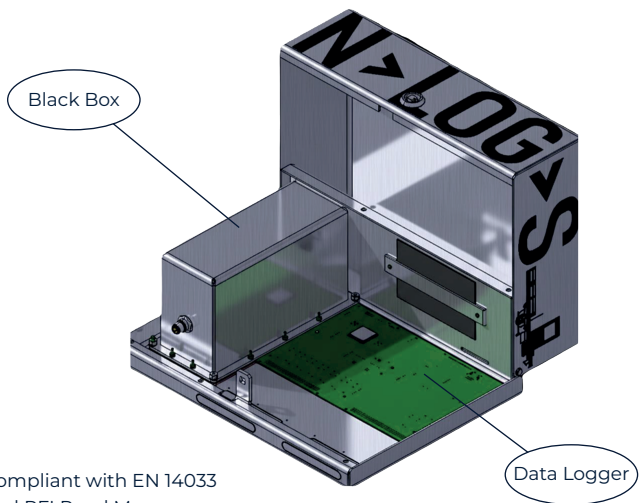
Modular architecture

Data Logger (I/O acquisition and management)

Black Box (protected recording and post-event retrieval)

Benefits

Regulatory compliance (RFI Road Map), fast retrofit, advanced diagnostics, post-event analysis



Compliant with EN 14033
and RFI Road Map

Black Box compliant with
EN 62625-1, Category A

TRAIN LOG-S

Electrical Interfaces and Connections

The following are the interfaces of the base logger (from connector pin-out Conn1–Conn2) and scalability with each Expansion Module.

Type	Base Logger	Each Expansion Module
Digital inputs	20	+20
Analog inputs	2	+2
Analog outputs	1	+2
Relay outputs	6	+6
OC / Frequency outputs	2 (1 OC + 1 OF)	+4 (2 OC + 2 OF)
Frequency inputs	-	+2
Communication bus	1 CAN + 1 RS-485	-

Power supply 9 – 160 Vdc, 200 V surge

Cooling Natural convection

Mechanics & Installation

- Compact dimensions: 370 × 282.5 × 138 mm
- Quick fastening: bolted connection
- Flexible mounting points for retrofit in accordance with RFI Road Map
- Compliance: EMC, shock, vibration

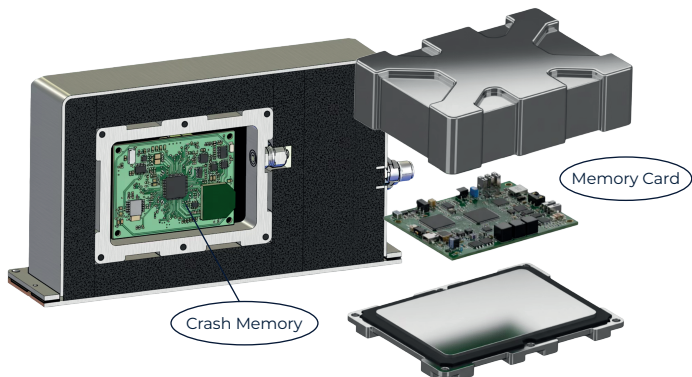
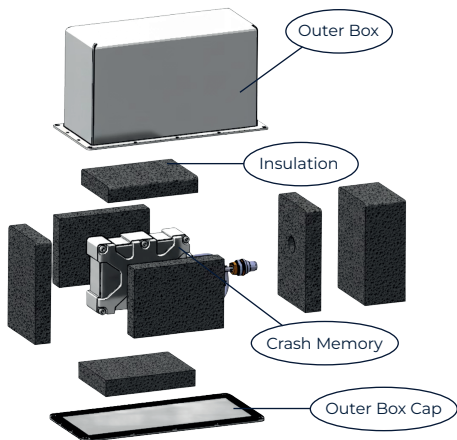
Solution combining technical functionality with aesthetic value

- ✓ Focus on aesthetics and seamless integration into railway cabins;
- ✓ Design inspired by common emergency/attention patterns for clear recognizability;
- ✓ Clean, modern lines to simplify installation and maintenance.



Ergonomic design of connectors and access panels.

Black BOX



- Compliant with EN 62625-1 Cat. A
- Compact form factor
- Power supply from CM bus (12 Vdc) or 5 V USB
- Also available stand-alone
- Secure post-event retrieval
- Data protection in extreme conditions (impact/fire)

Developed in collaboration with SpinTop S.r.l.



PC tool: Windows 11 or higher
(configuration, diagnostics, log download)



Mobile app: iOS / Android
(system status, live view, data export)



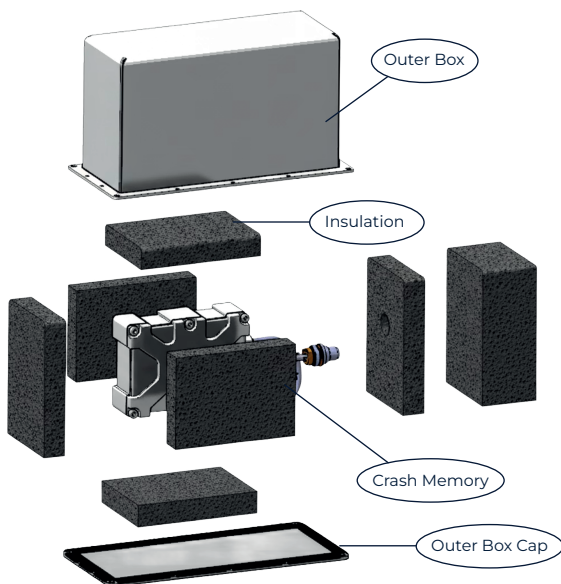
**Communications: standard protocols
on CAN and RS-485;** service port for maintenance

COMPLIANCE & STANDARDS

- ✓ EN 14033 (railway service vehicles)
- ✓ EN 62625-1 Cat. A (Crash Memory)
- ✓ EN 45545-2 (Fire & Smoke – HL2)
- ✓ EN 50121-3-2, EN 55022, EN 61000-4-xx (EMC)
- ✓ EN 61373 (Vibration/Shock – Cat. 1, Class B)

KEY ADVANTAGES

- Compliant with railway standards and RFI Road Map;
- Scalable: from 31 base channels to
+ 34 channels per expansion module;
- Retrofit-ready: fast installation on existing rolling stock;
- Certified Crash Memory, available as stand-alone product;
- Tool & App for analysis and maintenance;





DEVELOPMENT
DESIGN
PRODUCTION
TESTING
OPERATION

011401

10
1011

DESIGN AT HIGH SPEED



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