



MAGNET

Trackside ATS Magnet



Our company manufactures two types of trackside ATS magnets: integrated and standard. To ensure that the trackside magnets we produce offer a longer service life and enhanced safety for both maintenance teams and railway authorities — compared to conventional standard trackside magnets — we have implemented several improvements and design modifications based on the considerations outlined below.

- In currently used trackside ATS magnets, cable breakage often leads to deviations from the required frequency values. Because these units cannot be repaired once the cable is damaged, they become unusable.
- To address this issue, we developed an ATS Magnet Interface Control Board, which is integrated inside the trackside ATS magnets. With this design, broken cables can be easily replaced, preventing the magnets from becoming inoperable due to cable failures.
- The ATS Magnet Interface Control Board embedded in the integrated trackside ATS magnet is designed to be completely waterproof and resistant to moisture. At the same time, the design allows easy access to the board in the event of a fault.
- In currently used trackside ATS magnets, any damage or breakage of the cable carries — even if with low probability — a risk of short-circuiting at the cable ends, which can cause the magnet to completely lose its function. In contrast, the integrated trackside ATS magnets we manufacture are designed to eliminate this risk: even if the cable breaks or is intentionally severed and the cable ends short-circuit, the system will continue to generate the red aspect frequency of 100.5 kHz.
- The integrated trackside ATS magnet is also optionally designed to transmit cable-breakage status information if required.
- The integrated trackside ATS magnet can be easily connected either directly to the interlocking system or to the ATS Magnet Interface Control Board produced by our company. This feature simplifies installation and maintenance while increasing system efficiency and reliability.

Technical Specifications

PROPERTY	VALUE
Housing dimensions	720 × 320 mm, height ~80 mm
Mounting	650 mm hole spacing, 2 × Ø21 mm mounting holes
Housing material	Glass-fibre reinforced polyester filling (22–25% fibre)
Temperature endurance	-40°C ... +70°C
Cable	7.2 m; fixed to housing or socket type (Integrated type: socket type, length as required)

Resonance Frequencies

MAGNET	FREQUENCY
Type A Trackside ATS Magnet (close-in)	100.5 kHz / 74.5 kHz
Type D Trackside ATS Magnet (distant)	81.0 kHz

Tests Performed

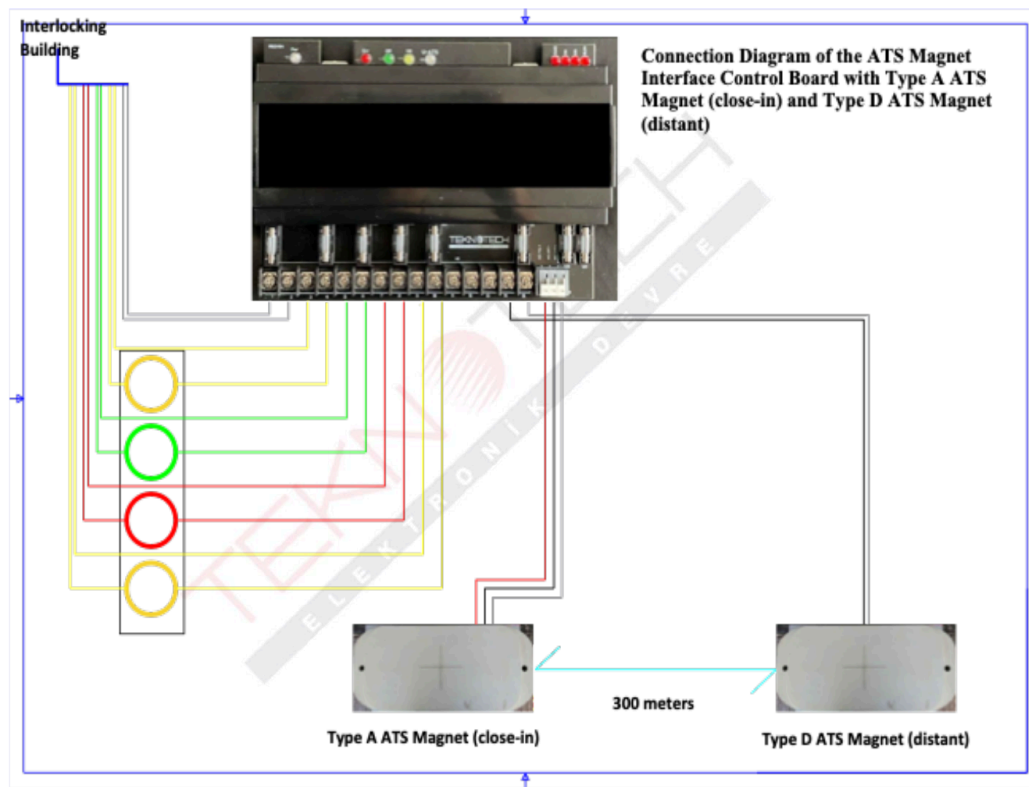
Our products have been tested for climatic environmental endurance under the LVD (Low Voltage Directive) framework, and for dust and water ingress protection under the IP (Ingress Protection) rating.

TEST	SEVERITY	STANDARD	RESULT
Cold Test (LVD)	-40°C, 8 hours	TS EN 60068-2-1	PASS
Dry Heat Test (LVD)	+70°C, 8 hours	TS EN 60068-2-2	PASS
Dust Protection Test (IP6X)	—	EN 60529	PASS
Water Protection Test (IPX5)	—	EN 60529	PASS

Product Codes

CODE	TYPE	MAGNET	CABLE
AYM-26-01	Standard	Type A (close-in)	Fixed to housing, 7.2 m
AYM-26-11	Standard	Type A (close-in)	Socket type, 7.2 m
DYM-26-01	Standard	Type D (distant)	Fixed to housing, 7.2 m
DYM-26-11	Standard	Type D (distant)	Socket type, 7.2 m
AYM-26-02	Integrated	Type A (close-in)	Socket type; length as required
DYM-26-02	Integrated	Type D (distant)	Socket type; length as required

Connection Diagram



* All our products undergo functional testing before shipment and carry a 2-year warranty from the invoice date. The warranty covers manufacturing defects; damage caused by improper or negligent use, impacts or other external factors is excluded.

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