

REGIOFLEXX

Advanced integrated brake control for TSI main lines

Performance, scalability and ease of maintenance: the best integrated brake control system for main line trains on the market

Regioflexx features an integrated brake control with service and emergency braking, our latest suit of adhesion management solutions DistanceMaster[™], communication with the train network for brake blending, and diagnostics. Developed for regional, high speed and very high-speed trains (EN16185; EN15734; LOC&PASS TSI), the system is also compliant with most national standards. Sharing the same pneumatic platform as Metroflexx, our integrated brake control for Mass.

Regioflexx is our second SIL4 development, providing the full set of braking functions required for regional and high-speed trains. It features two independent input load signals (pneumatic and electric); two independent weighed service and emergency brake channels; and SIL4 protected wheel slide protection independent per channel. This unique and patented architecture allows multiple brake control configurations within a single product. Regioflexx is natively capable to be fully Train Control Network driven: Dual Ethernet + safety loop is all you need.



KEY CUSTOMER BENEFITS

Safety guaranteed

Compliance assessment with TSI from DB Systemtechnik and Safety assessment of compliance with CENELEC safety standards from TÜV SÜD.

Top performance

Fast response time, high output accuracy, and adaptive WSP for guaranteed shortest braking distance and reduced maintenance costs.

Reduced initial costs

One system for all market segments and brake control architectures with a simple network connection. Pneumatic heavy/costly components have been replaced by SIL+ electronic HW and software.

Lowest total cost of ownership

A simple design, smart pressure management, and extended MTBO (15 years). Plus, an embedded CBM provides fault reports, time to overhaul, and inspection flags.

Best train availability

One single failure doesn't prevent train to operate. One single part number for the fleet. Replacement on train in less than 20 min, no special tools required.

No special tools required

ATO-ready, high-SIL software can be upgraded over the system's lifetime to benefit from the latest innovations and updates.

Light weight

At 10 kg per unit, this is the lightest system on the market.

	PECIFICATIONS	REGIOFLEXX DIAGRAM	DATA SHEET
Dimensions	270 x 315 x 192 mm, without mating connectors	Safety supervisor board ← un	trol
Weight	10 kg	Remote release #1	_
MAIN TECH	NICAL FEATURES		
Air supply up t	o 10 bar (145psi)	Load signal 1 -> Chanel Control	
24 to 110Vdc;	power consumption < 60W	↓ Load pressure	
40 to +60°C (-	40 to + 140°F) operating temperature	Load signal 2 Chanel 2	2 -> Chanel 2
Ethernet, CAN	& MVB networks available	Control	module
Service brake, elease per axl	emergency brake and remote e	Remote release #2	
		A single failure on service brake cannot prevent train from	n continuing service
dvanced and	patented remote release	The worst single failure affecting emergency brake canno 50% of the emergency brake effort per unit	t impact more than
Emergency bra	ke SIL4 at train level; Service brake SIL2 a	at bogie level	
	r [™] reduces braking distance elongation u esion conditions are defined according to	p to 50% vs traditional WSP in standard* degraded adhesion EN 15595 and UIC 541-05).	
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CONTACT

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