KEY DATA - XBC

PARAMETER	DATA
Max. caliper volume supported	15 - 20 cm^3
Max. output pressure	120 bar
Max. pressure without damage	180 bar
Max. local pressure gradient	> 600 bar/sec
Time to lock *(0 to 80 bar)*	< 150 ms
Time to release *(80 to 0 bar)*	< 150 ms
Pressure control accuracy *(constant target @ 100 bar)*	+/- 1 bar
System input voltage	10 - 18 V
Max. power consumption	800 W
Packaging Volume	< 4 L
System mass	< 4,5 kg

VISIT **XBC-TECHNOLOGY.COM**
FOR MORE INFORMATION

Your contact:

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Senior Product Manager

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info@lsp-ias.com • www.lsp-ias.com

LSP Innovative Automotive Systems

XBC / **BRAKE BY WIRE SYSTEM**
Redundancy and Safety

LSP Innovative Automotive Systems GmbH
Feringastraße 9 • 85774 Unterföhring • Germany
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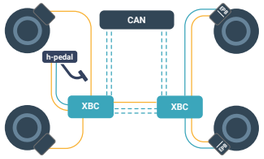
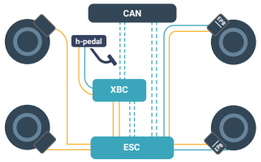
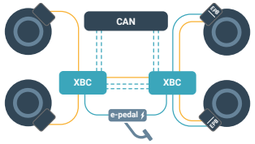
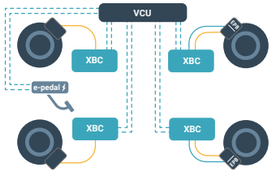
www.lsp-ias.com

HIGH-PERFORMANCE BRAKING WITH COMPACT DESIGN AND COMPATIBILITY ACROSS H-PEDAL AND E-PEDAL ARCHITECTURES

LSP's XBC System combines decades of braking expertise with a focus on compact design, adaptability to different applications, reliability and seamless integration— delivering a safe, efficient braking solution tailored for the demanding requirements of modern light commercial vehicles.

ELECTRIC CONNECTIONS
HYDRAULIC CONNECTIONS
CAN

Hydraulic Schematics	Compact firewall packaging with hydraulic pedal	Compact firewall packaging with e- pedal	AEB, EPB, Basic stability functions	Advanced Stability functions	GVW Support
	✓	✗	✓	✗	≤ 8000kg
	✓	✗	✓	✓	≤ 8000kg
	✗	✓	✓	✗	≤ 8000kg
	✗	✓	✓	✓	≤ 12000kg

XBC

SMART BRAKING FOR LCVs – ROBUST, REDUNDANT, AND READY FOR EVERY LOAD AND ROAD.

BENCHMARK IN INTEGRATION FLEXIBILITY

Precise monitoring of pressure-to-volume characteristics
Numerous diagnostic functions and pre-drive checks
Enhanced efficiency with full 2-axle regen, maximizing energy savings.

BEST IN CLASS FEATURES

Robust Diagnostics: *Real-time safety and fault checks*
Compact Packaging
AEB: *Faster time to lock of < 150 ms (caliper dependent)*
Better adhesion utilisation: *Pressure ramp gradients of > 600 bar/s*
Low Noise levels
Pedal Flexibility: *Remote e-Pedal, h-Pedal integration possibility*
Pedal / brake Feel Tunability: *Customizable pedal feedback and force curve*
Basic Stability functions: *Roll over mitigation*

FULL SYSTEM MODULARITY

Scalability of system parameters
Variety of system input voltage options
(12 V, 24 V, 48 V)
Variety of hydraulic layouts
Ready for autonomous driving

LSP
Innovative Automotive Systems