

# KEY DATA

## IBSe

PARAMETER	DATA
Max. caliper volume supported	6 - 10 cm³
Max. output pressure	100 - 140 bar
Max. input pressure without damage	200 bar
Pedal feel emulator volume (@ 60 bar)	1 - 4 cm³
Max. local pressure gradient	800 - 1200 bar/sec
Time to lock (0 to 80 bar)	< 120 ms
Time to release (80 to 0 bar)	< 100 ms
Pressure control accuracy (constant target @ 100 bar)	+/- 1 bar
System input voltage	10 - 18 V
Idle power consumption	< 5 W
System dimensions (L x H x W)	160 x 110 x 130 mm
System mass with / without pedal feel emulator	1,7 / 1,4 kg



**Your contact:**

Emanuel Wallrapp  
Product Manager  
  
Feringastrasse 9  
85774 Unterföhring  
  
Mobil.: +49 (0)170 289 468 4  
info@lsp-ias.com • www.lsp-ias.com



# IBSe

## BRAKE BY WIRE SYSTEM FOR THE HIGHEST DEMANDS

**LSP Innovative Automotive Systems GmbH**

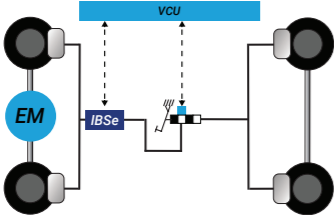
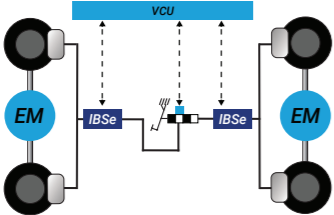
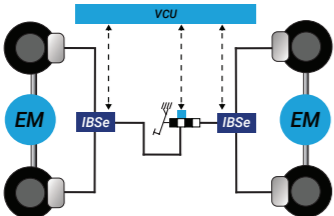
Feringastrasse 9 • 85774 Unterföhring • Germany  
Tel.: +49 (0)89 2872468 10 • Fax: +49 (0)89 2872468 15  
info@lsp-ias.com • www.lsp-ias.com



# IBSe

## A NEW STANDARD IN PERFORMANCE AND FLEXIBILITY – FAR BEYOND TRADITIONAL MOTORSPORTS

LSP’s newest IBSe product combines its many years of experience in motorsports with the latest technological developments, know-how and expertise from the exciting hypercar sector. Thanks to a variety of synergies, IBSe is setting new standards in terms of power density and reliability. What’s more, the modular design approach allows the system to be individually adapted to the requirements of your specific vehicle architecture.

Hydraulic Schematics		Brake Blending, Brake Boost, Launch Control	Adjustable Brake Balance	Race ABS	Corner Braking	Traction Control
A		1-axle	✓	✗	✗	✗
B		2-axle	✓	✗	✗	✗
C		4-wheel	✓	✓	✓	✓

# IBSe

## CUSTOMIZED TO MEET YOUR NEEDS: PERFECTLY MODIFIED FOR WEIGHT, FIT AND FUNCTIONALITY



### BENCHMARK IN ROBUSTNESS

- Precise monitoring of pressure-to-volume characteristics
- Numerous diagnostic functions and pre-drive checks
- Full aluminium housing with IP67 protection class

### PLUG & PLAY

- Stand-alone system
- Fully integrated electronics and sensors
- Approved motorsport interfaces

### FULL SYSTEM MODULARITY

- Scalability of system parameters
- Customer-specific pedal feel emulator
- A variety of hydraulic layouts
- Ready for autonomous driving