

# FTSS3 BRAKE CONTROL UNIT

*Increase asset performance, reliability and safety*

## **MARKET UNIQUE 3 RELAYS INTEGRATED LIGHT SOLUTION**

A pneumatic brake control unit provides an efficient interface between the brake pipe, the brake actuator(s), the auxiliary reservoir(s) and the load component(s) for all types of freight wagons.

Built around the SW4S distributor valve fulfilling all UIC and TSI requirements, the unit is fully configurable to fit the exact need of the freight car brake architecture i.e with or without load dependant valves and knick valves and can be equipped with EP brake module and/or digital module.

The FTSS3 version is unique on the Market as it gathers on a single bracket the full brake control equipment for 3 bogies type freight cars. This is typically relevant for intermodal freight cars of the 80' and 90' series which market is continuously growing. If needed by the application, the units could be configured for three different brake cylinder pressures.

## **KEY FUNCTIONS**

FTSS3 provides the full set of braking functions required for three bogies freight cars.

## **KEY CUSTOMER BENEFITS**

### **Reduced Initial Costs**

One single product for all functions allowing easy and quick installation, simpler and less piping compared to alternative solutions.

### **Lowest Total Cost of Ownership**

A simple design facilitating inspection and overhaul.

### **Compact and Light**

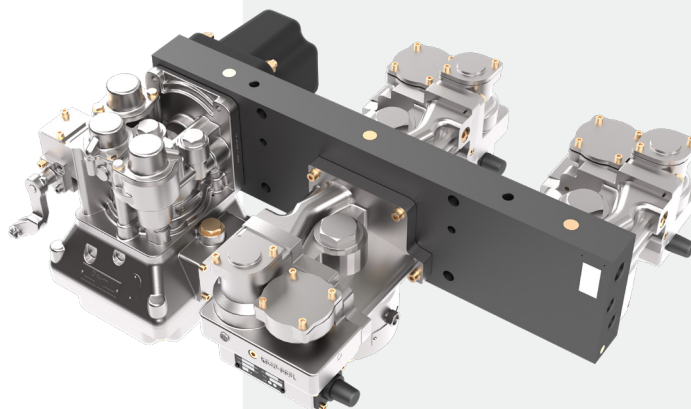
With 82 kg, this is the lightest sub-system on the market.

### **Homologated and Service Proven**

Based on optimized service proven SW4S distributor valve and AKR relay valve.

### **Digital Ready**

Ready for embedded condition based maintenance and preventive maintenance.



## HEADLINE INFO HERE

Prototype

Ready to Quote

Ready to Produce

In Production

### SYSTEM PERIMETER

Pneumatic brake control.

Optional pressure ports for digital functions

### REFERENCES

SW4S distributor and relay valves are running on thousands of freight wagons worldwide with different brake unit arrangements

>1000 FTSS3 running

### TARGET APPLICATION

All types of freight wagons

New builds and conversion projects

### CERTIFICATION

Designed, validated and homologated according to UIC and TSI (EN norms) regulations

Shock and Vibration tested to IEC 61373 category 2 (assembly on bogie)

### PRODUCT SPECIFICATIONS

#### DESCRIPTION

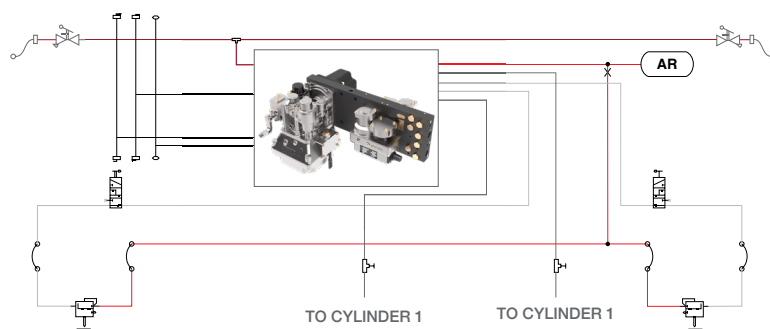
#### PARAMETERS

Overall dimensions  
(with 2 AKR relays)

L 547 x l 430 x h 361 mm

Weight (with 2 AKR relays)

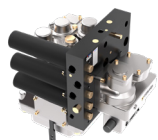
37,5 kg



### MODULARITY BY ADJUSTING QUANTITY OF RELAYS AND KNICK VALVE

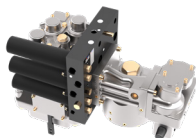
#### One Relay

(with and without Knick Valve + Digital Ready)



##### FT SS1 AKR DR

FT0120141-100  
361 x 404 x 420mm  
32kg

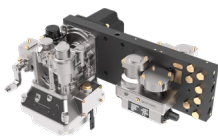


##### FT SS1 AKR MKV20 DR

FT0126127-100  
361 x 566 x 420mm  
42kg

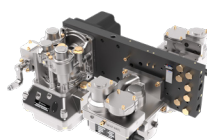
#### Two Relay

(with and without Knick Valve + Digital Ready)



##### FT SS2 AKR DR

FT0120357-100  
692 x 435 x 362mm  
41kg

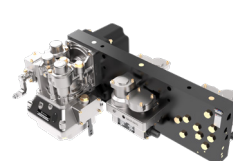


##### FT SS2 AKR MKV20 DR

FT0120358-100  
692 x 568 x 362mm  
60kg

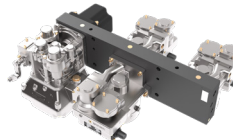
#### Three Relay

(with and without Knick Valve + Digital Ready)



##### FT SS3 AKR DR

FT0242336-100  
815 x 455 x 362mm  
53kg



##### FT SS3 AKR MKV20

FT0120360-100  
815 x 588 x 362mm  
82kg

### CONTACT

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