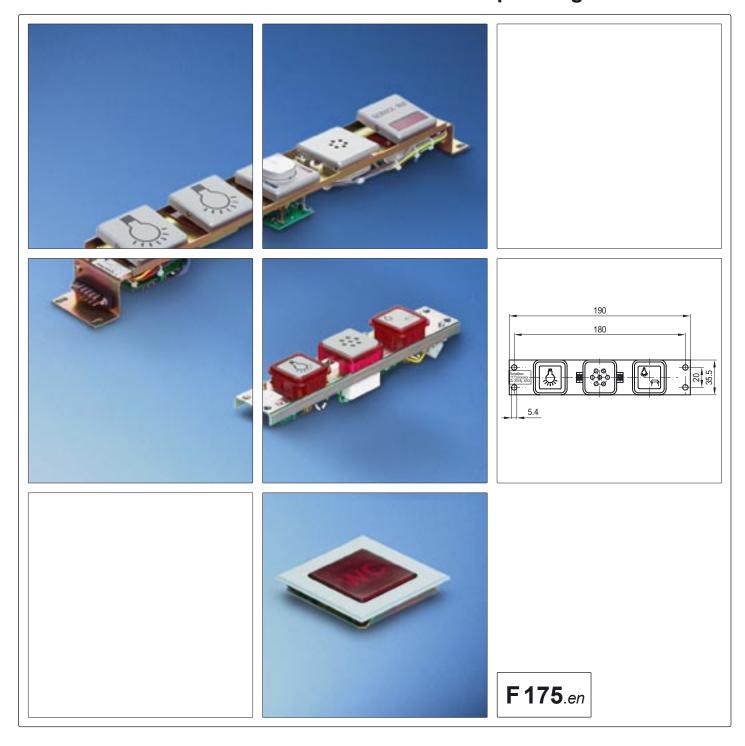


Control panel assemblies for motorised trains and passenger coaches





## Control and indicating equipment for passenger coaches

Schaltbau control-panel assemblies can be found in all types of passenger coaches at home and abroad. During the years our comprehensive custom-made range of single and multiple-

section control-panel assemblies was developed which cannot be presented in its entirety. This catalogue is meant to give you an survey of our standard control-panel assemblies.

#### **Features**

#### Robust:

- Rugged mechanical design ensures long life
- Panels made of anodized aluminium with indelible pictograms
- Attractive: Elegant contemporary design incorporating internationally conventional pictograms

#### • Integrable:

- Modules for air-conditioning (temperature sensor and setpoint device)
- Passenger information system (volume control)
- Interface with central control system via bus

#### Optional:

- Temperature sensor with rotatable air hose terminal for measuring ambient temperature
- Pushbutton also available with timer

#### **Standards**

- EN 50155: Bahnanwendungen Elektronische Einrichtungen auf Schienenfahrzeugen
- IEC 60571: Electronic equipment used on rail vehicles
- IEC 60077-1: Railway applications Electric equipment for rolling stock - Part 1: General service conditions and general rules
- IEC 60068: Environmental testing
- BN 411002: Vorschriften für elektrische Einrichtungen auf Schienenfahrzeugen

#### **Variants**

Do you need a special variant? Do not hesitate to contact us! Maybe the assembly you are looking for is among our many **special designs**. If not, we also **manufacture to custormer requirements**. In this case, however, minimum order quantities apply.

## Control-panel assemblies for vehicle compartments, standard



Standard control-panels for vehicle compartments are used where large panels and indicators are required.

#### **Features**

- Panel-mounted assembly with or without faceplate
- Combination of momentary or maintained pushbuttons, indicators, volume and temperature control, temperature sensor
- Electrical connection via cage clamps or flat tabs

Control-panel assemblies for vehicle compartments, standard (selection)						
Series	Control panels from left to right					
	1. Panel	2. Panel	3. Panel	4. Panel	5. Panel	
ZL162	Volume control	Nighttime economy lamp	Rocker switch			
ZL178	Volume control	Light switch	Nighttime economy lamp	Temperature control	Temperature sensor	
ZL179 a	Temperature sensor	Light switch	Volume control	WC »Occupied«		
ZL179 b	WC »Occupied«	Volume control	Light switch	Temperature sensor		
ZL185 a	Light switch	Nighttime economy lamp	Temperature control	Temperature sensor	Service call	
ZL185 b	Light switch	Light switch	Temperature control	Temperature sensor	Service call	
ZL185 c	Light switch	Nighttime economy lamp	Temperature control	Temperature sensor	Dummy plate	
ZL189 b	Volume control	Nighttime economy lamp	Light switch	Temperature control		



### Standard indicators

The main focus is on the state of the WC indicators for »Occupied«, »Not working« or »Unusable«.

#### **Features**

- Excellent visibility of LED display
- Long design life of LED array
- Indicator panel available with frame made of anodised aluminium
- Available with different supply voltages
- WC indicators: Use not dependent on WC system

WC indicators (selection)				
Series	Indicator	Description		
ZL181	»WC Occupied«	with silver-grey frame		
ZL181 b	»WC Occupied«	without frame		
ZL181 c	Yellow backlit display	fire alarm light with frame		
ZL184	»WC Not working«	with silver-grey frame		
ZL187	»WC Unusable«	with silver-grey frame		
ZL205	»WC Occupied«	displayed green or red (switchable)		
ZL214	» <b>+</b> «	first aid indicator with frame		



# Control-panel assemblies for vehicle compartments, miniaturised

This type of assembly allows mounting in confined space as in the city nightline trains of DACH-Hotelzug AG or the ICE3 high-speed trains.

#### **Features**

- Panel mounted base assembly without faceplate
- Red or blue LED lit panel frames as function indicator
- Combination of pushbuttons, indicators, volume and temperature control, temperature sensor
- Electrical connection via cage clamps or flat tabs



Control-panel assemblies for vehicle compartments, miniaturised (selection)						
Series	Control panels from left to right					
	1. Panel	2. Panel	3. Panel	4. Panel	5. Panel	
ZL203	Light switch	Temperature sensor	Reading lamp switch			
ZL204	Temperature control	Nighttime economy lamp				
ZL206 A	Pushbutton for running water (timer)	Switch for heating	Light switch	WC Not working	Pushbutton for flushing toilette	
ZL208	Pushbutton for running water (timer)					
ZL209	Light switch	Temperature sensor				
ZL210	Light switch	Temperature sensor	Temperature control			
ZL227 A	Light switch	Temperature sensor and -control				
ZL228 C	Light switch	Fire alarm light, yellow				







Schaltbau GmbH has an environment management system that has been certified since 2002.

Schaltbau GmbH has a quality management system that has been certified since

# **Electrical Components and Systems for Railway Engineering and Industrial Applications**

Connectors	Connectors manufactured to industry standards
	<ul> <li>Connectors to suit the special requirements of communications engineering (MIL connectors)</li> </ul>
	Charging connectors for battery-powered machines and systems
	<ul> <li>Connectors for railway engineering, including UIC connectors</li> </ul>
	<ul> <li>Special connectors to suit customer requirements</li> </ul>
Snap-action switches	<ul> <li>Snap-action switches with positive opening operation</li> </ul>
	<ul> <li>Snap-action switches with self-cleaning contacts</li> </ul>
	<ul><li>Enabling switches</li></ul>
	<ul> <li>Special switches to suit customer requirements</li> </ul>
Contactors	Single and multi-pole DC contactors
	<ul> <li>High-voltage AC/DC contactors</li> </ul>
	<ul> <li>Contactors for battery powered vehicles and power supplies</li> </ul>
	<ul> <li>Contactors for railway applications</li> </ul>
	<ul> <li>Terminal bolts and fuse holders</li> </ul>
	<ul> <li>DC emergency stop switches</li> </ul>
	<ul> <li>Special contactors to suit customer requirements</li> </ul>
Control devices	Master controllers and reversers for railway applications
	<ul> <li>Toggle switch devices</li> </ul>
	<ul> <li>Handles and foot switches for railway applications (dead-man equipment)</li> </ul>
	<ul> <li>Switching elements with high breaking capacity</li> </ul>
	Emergency brake handles
	<ul><li>Signal devices</li></ul>
Transportation system equipment	Power supplies for passenger coaches (electric equipment)
	<ul> <li>Battery chargers for locomotives and passenger coaches</li> </ul>
	<ul> <li>High-voltage equipment for single and multi-phase operation</li> </ul>
	Heating devices and heating controls
	<ul> <li>Design and engineering services for high-voltage equipment</li> </ul>
	Special equipment to suit customer requirements

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