

Automation

Extreme

Wireless

// SAFE SWITCHGEAR FOR COMPLEX AND DEMANDING APPLICATIONS



# Automation

<p>// ST 14</p>	<p>// STM 295</p>	<p>// ES 95 SB</p>	<p>// HS SI 4</p>
			
<p>Safety switches with separate actuator</p>	<p>Solenoid interlocks</p>	<p>Safety switches for hinged guards</p>	<p>Safety sensors</p>
<ul style="list-style-type: none"> <li>• Monitoring of safety guards on machines and plants according to the Machinery Directive</li> <li>• Suitable for sliding, hinged and removable doors, flaps and fencing</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring of safety guards on machines and plants with hazardous aftertravel according to the Machinery Directive</li> <li>• Suitable for sliding, hinged and removable doors, flaps and fencing</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring of safety guards on machines and plants according to the Machinery Directive</li> <li>• Suitable for hinged doors and flaps</li> </ul>	<ul style="list-style-type: none"> <li>• Magnetic or Hall effect-safety sensors for non-contact monitoring of machines and plants according to the Machinery Directive</li> <li>• Suitable for sliding, hinged and removable doors, flaps and fencing</li> </ul>
<p>// ES/EM 98</p>	<p>// ZS 80</p>	<p>// ZS 73 SR</p>	<p>// GFSI VD</p>
			
<p>Position switches with/without safety function</p>	<p>Emergency pull-wire switches</p>	<p>Belt-alignment switches</p>	<p>Foot switches</p>
<ul style="list-style-type: none"> <li>• For positioning or safety tasks on machines and plants</li> <li>• Suitable for limit stop</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring and switch-off of large plants and conveyor belts</li> <li>• According to EN ISO 13850 suitable for wire length of up to 2 x 100 m</li> </ul>	<ul style="list-style-type: none"> <li>• For belt-alignment monitoring, control and switch-off of conveyor belts</li> </ul>	<ul style="list-style-type: none"> <li>• Safety foot switches and foot switches for application on industrial plants and machines</li> <li>• Variants with or without protective shield, made of metal and thermoplastic</li> </ul>

# Extreme

// IS M12 Extreme



## Inductive sensors

- For extreme applications: cold, heat, humidity, dust, corrosion
- For non-contact position detection

// RC 2580 Extreme



## Magnetic sensors

- For extreme applications: cold, heat, humidity, dust, corrosion
- For non-contact position detection

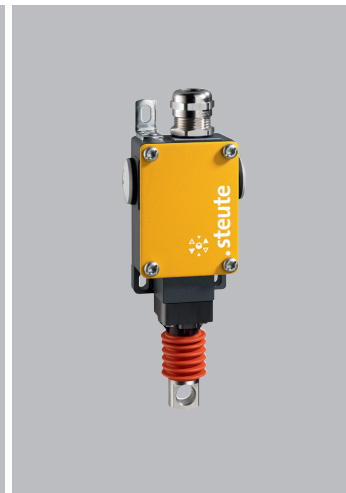
// ZS 91 S Extreme



## Emergency pull-wire switches

- For extreme applications: cold, heat, humidity, dust, corrosion
- Monitoring and switch-off of machines and plants, as well as conveyor belts according to EN ISO 13850
- Suitable for wire length of up to 2 x 100 m

// ES 61 WZ Extreme



## Pull-wire switches

- For extreme applications: cold, heat, humidity, dust
- For opening of industrial doors

// Ex ES/EM 98



## Ex position switches

- For Ex zones 1 and 21
- For positioning or safety tasks on machines and plants
- also available as position switches with analogue output: 0 ... 10 VDC, 0 ... 20 mA, 4 ... 20 mA
- ATEX, IECEx and further international Ex approvals

// Ex RC Si M30



## Ex safety sensors

- For Ex zones 1 and 21 and other extreme applications: humidity, corrosion
- For monitoring of doors, flaps and covers on machines and plants
- ATEX, IECEx and further international Ex approvals

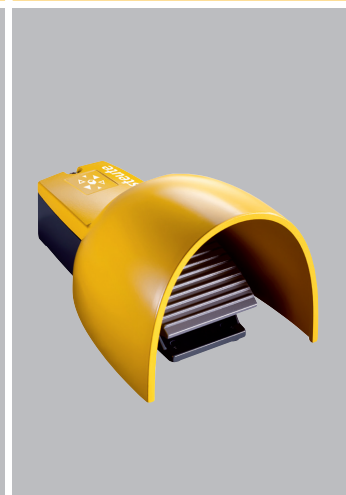
// Ex STM 295



## Ex solenoid interlocks

- For Ex zones 1 and 21
- Monitoring of machines and plants with hazardous aftertravel according to the Machinery Directive
- Suitable for sliding, hinged and removable doors, flaps and covers
- ATEX, IECEx and further international Ex approvals

// Ex GFSI



## Ex foot switches

- For Ex zones 1 and 21
- Foot switches for application on machines and plants
- Variants with or without protective shield
- ATEX and IECEx approvals

# Wireless

// RF 95 WH



## Wireless position switches

- For positioning and security applications
- Bi-directional wireless connection
- Sensing ranges up to 700 m
- 868 or 915 MHz frequency
- No battery to be charged, replaced or recycled

// RF 98



## Wireless position switches

- For positioning and security applications
- Bi-directional wireless connection
- Sensing ranges up to 700 m
- 868 or 915 MHz frequency
- No battery to be charged, replaced or recycled

// RF 96 ST



## Wireless universal transmitter

- For non-contact positioning and security applications
- Bi-directional wireless connection
- Sensing ranges up to 450 m
- 868 or 915 MHz frequency
- Replaceable lithium battery

// RF BF 74



## Wireless command devices

- As command device in machines and plants
- Bi-directional wireless connection
- Sensing ranges up to 700 m
- 868 or 915 MHz frequency
- No battery to be charged, replaced or recycled

// RF HB 4CH



## Wireless hand remote control

- For opening of gates and doors and for general signalisation in industrial applications
- Bi-directional wireless connection
- Sensing ranges up to 450 m
- 868 or 915 MHz frequency
- Replaceable lithium battery CR 2032

// RF GFSI



## Wireless foot switches

- For application in industrial machines and plants
- Bi-directional wireless connection
- 868 or 915 MHz frequency
- Also available as wireless safety foot switch with 2.4 GHz wireless frequency tested to the Machinery Directive

// RF I/O



## Wireless universal transmitter

- Wireless universal transmitter for the connection of sensors of the RF wireless series as well as external position or Nockenschalter
- For non-contact positioning and security applications
- Bi-directional wireless connection
- 868 or 915 MHz frequency

// RF Rx 4S



## Wireless receiver/repeater

- Different operation modes for various applications selectable
- Communication via TCP/IP (server or client mode)
- Web server based setup
- sWave® 868,915 MHz or EnOcean 868 MHz

## // TECHNOLOGY AS A PASSION



»Safe switchgear for demanding and critical applications«. True to this motto, steute has been providing its customers with innovative, practical and durable switchgear solutions – for over 50 years.

When our customers are successful, so are we. Because we always focus on our customers, our company has grown steadily and sustainably over the last decades. Steute is committed to continuing this growth – in close cooperation with our customers.

We are situated in East Westphalia, a key region for machine building and electrical goods manufacturing. It is home to qualified specialists committed to developing and manufacturing innovative products. It is also the location of renowned universities, research and educational institutions to which we maintain healthy contacts.

Markets are no longer restricted by national borders. This is why our products are developed and tested for extreme conditions all over the world. We take care to ensure that our products are always certified according to the latest international standards. In every industrial or emerging nation in the world, steute has access to qualified specialists who can guarantee competent support and a quick service.

As a medium-sized company we are able to react with speed to customer wishes and market trends. We are continually developing innovative products and using new technologies as we consistently open up new fields of application for our switchgear.

steute is currently active in four different business fields, producing switchgear, sensors and control units for use in industry and in medical equipment:

### **Wireless**

Cable-free switchgear and sensors for use in machinery and process plants. These industrial-strength wireless switches communicate with higher level control systems via reliable wireless transmission. »Energy harvesting« can play a major role in these products.

### **Automation**

Standard and customised switchgear for machinery and process plants. Tried and tested electromechanical and non-contact technologies for classical applications in industrial automation and process control – always with a view to the latest global requirements.

### **Extreme**

Switchgear and sensors for use in extreme environments or under extreme conditions. Certified products for use in hazardous areas worldwide (e. g. ATEX, IECEx, EAC).

### **Meditec**

A comprehensive range of standard and customised foot and hand controls for medical devices, meeting the highest ergonomic and availability requirements. Produced in accordance with the certified EN ISO 13485 quality management system for medical products.

The following information provides an overview of our standard range of switchgear for complex and demanding applications. We will be happy to provide you with any additional information you require. If you cannot find the solution for your application: just get in touch. We have already helped numerous customers by developing »tailor-made« switchgear for their individual needs.

**Marc Stanesby**  
**Managing Director**  
**steute Schaltgeräte GmbH & Co. KG**





For further information or individual service, please contact us. Detailed information can also be found at: [www.steute.com](http://www.steute.com)

steute develops and manufactures safe switchgear for demanding and critical applications. Besides a comprehensive standard range of products for »Wireless, Automation, Extreme and Meditec« applications, we also and increasingly develop customised switchgear for all four business fields. Some examples: emergency pullwire switches for the mining industry, position switches for industrial automation and control panels for laser surgery. Our head office is in Löhne, Westphalia, Germany; worldwide sales are conducted through steute's subsidiaries and trading partners.