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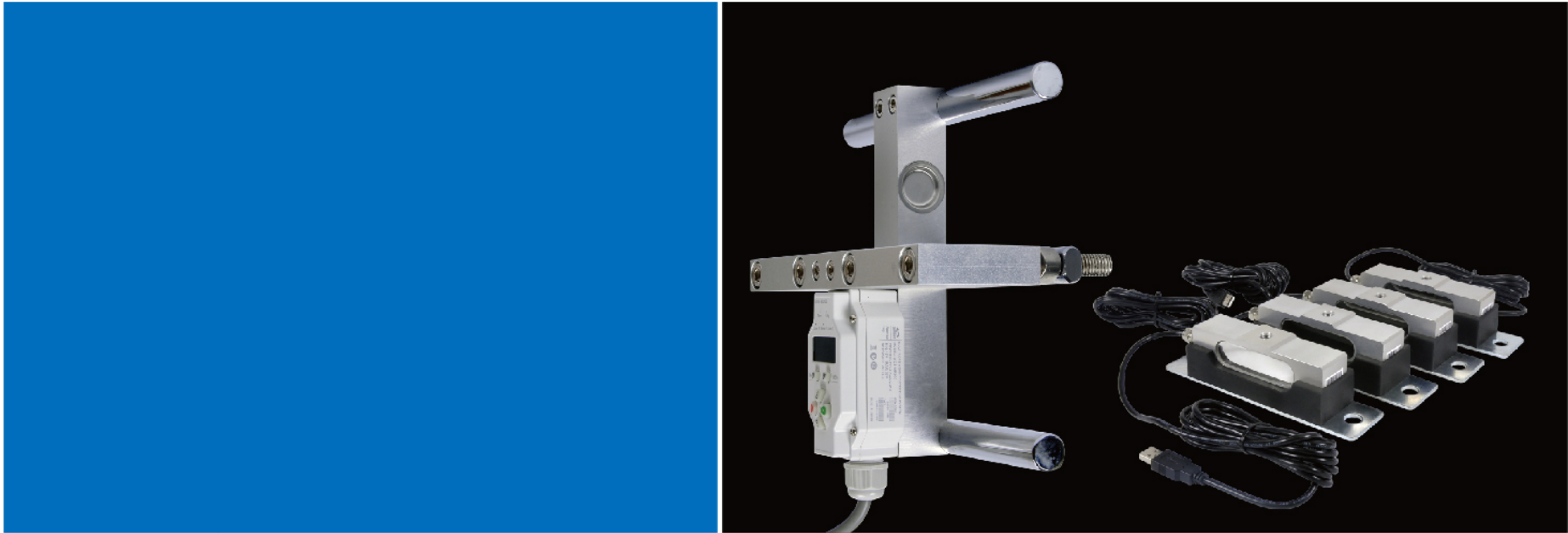
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## Product Summary

Reliable watching instruments and sensor  
solution for the elevator and lifting industry



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Edition 2023  
Excellent Sensors

# Welcome to the world of watching instruments and sensor

## Expertise and innovation ensure process reliability

SUMMIT Electric are subsidiaries of CBR, is an internationally leading manufacturer of sensors and sensor solutions. We have many cooperative companies all over the world. In the course of past decades, SUMMIT has acquired a reputation for itself as a renowned leading brand of top-quality sensor products for factory and process automation. SUMMIT banks on 20 years of expertise. Trusted partnerships experienced with leading manufacturer provide solid foundations for SUMMIT's pioneering innovation and ingenuity.

## A versatile industry demands a versatile product portfolio

SUMMIT products are widely used in many applications in the elevator and lifting industry. In process control, a wide variety of instruments are offered for measuring pressure and tension. Measuring, positioning, object identification or detection and motion control tasks are precisely mastered by the dependable and uncompromising performance of SUMMIT sensors and measuring instruments.

## Your trusted partner

SUMMIT ensures safety and quality at all steps of elevator and lifting. Long-standing expertise, all-encompassing technology competencies, profound consulting and support by qualified experts as a highly appreciated customer service-SUMMIT is the partner you can rely on standard and customized sensor solutions in the elevator and lifting machinery industry.

## 3E Moudle



We put forward the concept of the module.  
Develop and evolve further and provide project with demands of the time.

Easy

Economy

Expansible

Evolution

- Promote the product research and manufacturing
- Improve marketing and service quality
- Enhance customer satisfaction
- Grow with customers



## Do you stay current with technology? We utilize leading-edge sensing techniques.

Our sensors may look similar from the outside, but the detail makes the difference. SUMMIT is leading in the development of new innovative sensing principles thanks to basic research, and all expertise gained is implemented in the product design. You can always be sure that SUMMIT products are at the cutting edge of technology.

## Do you want to reduce the number of suppliers? Sensors and process instruments by summit.

A trusted partnership between supplier and customer provides mutual benefit. The all-encompassing SUMMIT portfolio in the segments sensor solutions, process instrumentation technologies makes us your one-stop partner for an overall solution to reduce costs as well as administrative and logistic overhead.

## Pioneering in technology

SUMMIT dedicates itself to pioneering technologies. Aside from conventional product research, several expert teams in our R&D constantly seek out new approaches, ideas and tendencies that will provide the basis for future product innovations. Any promising technology potential that may emerge is recognized early on to be implemented, into new innovative concepts. We keep with the times—to your benefit and profit.



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# Accurate Convenient Stable Has excellent cost-effectiveness



- Meets the requirements of EN81
- Supports 2 sets of relay signal outputs (optional for 3 sets of relays)
- Multi button operation, quick and easy debugging
- Green, high-efficiency, low energy power supply
- No need to predict weight, visually display load capacity
- 4-digit LED digital tube and multi status indicator display




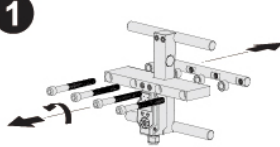
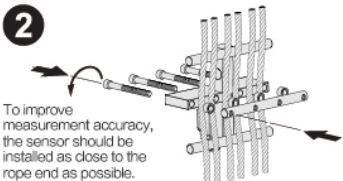
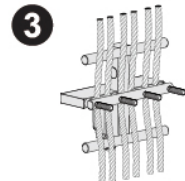
## Multi-rope weight watching system WDS-MR

### Multi-rope weight watching system

#### Product Characteristics

- Accurate, convenient, and stable with excellent cost-effectiveness
- Integrated design structure without the need for additional cable connections
- Suitable for measuring multiple steel wire ropes with a diameter of 4-16mm



Model	WDS-MR100	WDS-MR200	WDS-MR300
			
Operating voltage	16~48V AC/DC	16~48V AC/DC	16~48V AC/DC
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Rated power	≤4W	≤4W	≤4W
Wire rope diameter	4-16mm	4-16mm	4-16mm
Load range	300 ~ 2500KG	300 ~ 2500KG	1000 ~ 4500KG
Maximum load	≤5000KG	≤5000KG	≤9000KG
Input voltage	12 ~ 230V AC/DC	12 ~ 230V AC/DC	12 ~ 230V AC/DC
Alarm method	Sound, light, and electricity	Sound, light, and electricity	Sound, light, and electricity
Display data	4-digit digital tube display	4-digit digital tube display	4-digit digital tube display
Number of alarm relays	2	2	2
Contact rating	3A/250VAC 3A/24VDC	3A/250VAC 3A/24VDC	3A/250VAC 3A/24VDC
Shell material	flame-retardant ABS	flame-retardant ABS	flame-retardant ABS
Sensor material	Aluminum alloy+iron	Aluminum alloy+iron	Aluminum alloy+iron
Working temperature	-20℃ ~ +60℃	-20℃ ~ +60℃	-20℃ ~ +60℃
Protection level	IP45	IP45	IP45
Size (L × W × H)	208 × 158 × 93mm	208 × 230 × 93mm	208 × 306 × 103mm
Cable length	3m (standard)	3m (standard)	3m (standard)
Installation Diagram	<div><div><div>1</div><p>Use a 12mm Allen wrench to loosen the fixing screw and remove the fixing rod and locating ring.</p></div><div><div>2</div><p>To improve measurement accuracy, the sensor should be installed as close to the rope end as possible.</p></div><div><div>3</div><p>Tighten the fixed round rod with a 12mm Allen wrench.</p></div></div>		



# Embedded ARM System Multi channel graphical display



- 12 measuring channel
- Large-capacity data storage
- Large screen display
- Recording function
- Exclusive sensors, easy to install
- Suitable for steel rope with various diameters(5-22mm)/steel belt(30/60mm)
- Rope balance figure is intuitively displayed
- Exclusive sensors, easy to install
- 12 measuring channels
- Rope balance figure is intuitively displayed
- In-built with 4 AA batteries, easy to open
- Standard configured with neck belt, protect from being broken while operate on site

## Mobile load balancing watching system BMS-120

### Mobile load balancing watching system

#### Product Characteristics

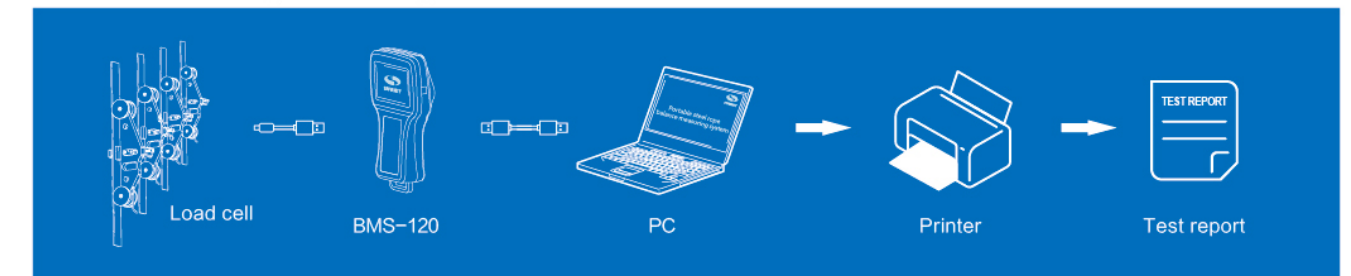
- Pursue comfortable ideal structure with easy installation
- Protruding structure on the backside with skid-proof design
- Casing with durable design, make it copes with extreme complicated environment
- Compact configuration based on ergonomics

## Mobile load balancing watching system working principle

BMS-120 elevator steel rope load balance measurement system detects rope load in real-time, and displays intuitively, which conducted by installing single sensor on each rope. While rope load unbalanced(beyond setting value), system will calculate optimum balance point of each rope,

even guides operator to make measurement or adjustment by graph. Furthermore, it can record detecting time, operator and measuring data into document. Data transmission with PC, which makes it can archive the data as well as printing.

### Schematic diagram of system



3 Phases voltage monitoring relay
RD6-W/WG/WX

3 Phases voltage monitoring relay
Product Characteristics
One unit can monitor voltage imbalance, phase sequence, and under phase of three-phase 3-wire or 4-wire power supplies
Switch settings for 3-phase or 3-wire or 4-wire power supplies
1 SPDT output relay, 6A at 250VAC (resistive load)
1 unit supports power specifications from around the world (switchable)
Convenient monitoring of relay alarm status using LED indicators



Product Function	Ideal product for monitoring three-phase voltage imbalance in industrial facilities and equipment		
Model	RD6-W	RD6-WG	RD6-WX
Rated voltage	200~500VAC	200~500VAC	160~690VAC
Rated frequency	50/60Hz ± 1Hz	50/60Hz ± 1Hz	50/60Hz ± 1Hz
Contact type	2NO / 1NC	2NO / 1NC	2NO / 1NC
Contact material	AgSnO	AgSnO	AgSnO
Contact rating	5A 280VAC / 8A 30VDC	5A 280VAC / 8A 30VDC	5A 280VAC / 8A 30VDC
Contact life	2 × 10 <sup>7</sup>	2 × 10 <sup>7</sup>	2 × 10 <sup>7</sup>
Temperature	-20~+60℃	-20~+60℃	-20~+60℃
Phase imbalance	≤10%	≤10%	≤10%
Insulation voltage	2.5KV / 1mn / 1mA / 50Hz	2.5KV / 1mn / 1mA / 50Hz	2.5KV / 1mn / 1mA / 50Hz
Protection level	IP40	IP40	IP40
Voltage action setting time	0.1~20s	0.1~20s	0.1~20s
Phase loss and error time	0.1~20s	0.1~20s	0.1~20s
Overcurrent setting value	-	-	-
Indicator	Display	Display	Display
Voltage display range	150~500V AC	150~500V AC	150~500V AC
Maximum Counting	999999	999999	999999
Maximum timing capacity	9999 hours and 59 minutes	9999 hours and 59 minutes	9999 hours and 59 minutes
Timing input signal	Active24V、110V、220V or 380V	Active24V、110V、220V or 380V	Active24V、110V、220V or 380V
Data retention time	18 years	18 years	18 years
	Equipment front-end protection	Device backend protection	Equipment front-end protection

3 Phases voltage monitoring relay
RD6/RD6-G/RM4TG20

3 Phases voltage monitoring relay
Product Characteristics
One unit can monitor voltage imbalance, phase sequence, and under phase of three-phase 3-wire or 4-wire power supplies
Switch settings for 3-phase or 3-wire or 4-wire power supplies
1 SPDT output relay, 6A at 250VAC (resistive load)
1 unit supports power specifications from around the world (switchable)
Convenient monitoring of relay alarm status using LED indicators



Product Function	Ideal product for monitoring three-phase voltage imbalance in industrial facilities and equipment		
Model	RD6	RD6-G	RM4TG20
Rated voltage	200~500VAC	200~500VAC	160~690VAC
Rated frequency	50/60Hz ± 1Hz	50/60Hz ± 1Hz	50/60Hz ± 1Hz
Contact type	2NO / 2NC	2NO / 2NC	2NO / 2NC
Contact material	AgCdO	AgSnO	AgSnO
contact rating	5A 280VAC / 8A 30VDC	5A 280VAC / 8A 30VDC	5A 280VAC / 8A 30VDC
Contact life	2 × 10 <sup>7</sup>	2 × 10 <sup>7</sup>	2 × 10 <sup>7</sup>
Temperature	-20~+60℃	-20~+60℃	-20~+60℃
Phase imbalance	≤10%	≤10%	≤10 %
Voltage action setting time	-	Settable	Settable
Insulation voltage	2.5KV / 1mn / 1mA / 50Hz	2.5KV / 1mn / 1mA / 50Hz	2.5KV / 1mn / 1mA / 50Hz
Protection level	IP40	IP40	IP40
Delayed output	Not enabled	Not enabled	Not enabled
matters needing attention	Do not install the product near devices that generate high frequencies or surges When using a noise filter on the power supply, check the voltage and current, and connect the noise filter as close as possible to the product.		
Monitoring and phase loss detection function table	<p>TS: Startup delay TV: Response time delay</p> <p>L1, L2,L3</p> <p>Measured voltage</p> <p>Relay 11/15-14/18 11 /15-12/16</p> <p>Relay 21/25-24/28 21/25-22/26</p> <p>Yellow LED light</p>		



# Compact and smart Reliable load watching device



Elevator overload measurement system is to control the load of cabin automatically. Based on elevator weighing principle, reflecting the cabin load to overload control circuit, upon exceeding the nominal load, it will send out warning signal, prevent elevator from operating.

Elevator overload measurement system is consist of control unit and load cell. analog signal that collected by load cell, transferred into digital signal by A/D chip, offers to control unit, then outputs all kinds of signals to stop operation and alarm.

## Elevator overload watching system



## Reliable load watching device

### Display

Control unit in-built with display window, shows error code and parameter not only indicates weight with percentage, but also displays weight value intuitively.

### Multi-key keyboard design

Control unit adopts button commissioning, it's convenient for users conduct parameter adjusting and data recording, to achieve safety and reliability.

### Relay switch output

To meet the needs of multiple control, respectively with overload, full load, half load, light load relay signal outputs, also can set operation mode and range based on different requirements.

### Power supply

Adopts wide voltage design, to meet needs of different power supply greatly, with features of compact, cute, low ripple noise and excellent EMC, suitable for kinds of operation environment.

### Signal locking

Due to the influence of gravity acceleration effects, elevator will emerge malfunction while the overload signal caused by the

instant of start and stop. Signal locking successfully resolved the malpractice, stop outputting overload signal during operation.

### Floor compensation

Provided that load cell installed under rope hitch plate that measuring tension force of steel rope, due to length of steel rope changes with the floor or inconsistent of friction coefficient of guide rail, result in the difference of figure when measuring same object at different positions, along with the difference of cabin load. Floor compensation can eliminate the problems easily. Setting upward and downward load for different floors respectively, to achieve the load consistency at any position.

### Analog output

Can recognize heavy load or light load, inputs an pre-load current for motor while heavy load operation, to avoid instant descent or ascent of cabin when starting. moreover, elevator can adjust starting torque automatically under different load, namely offering corresponding starting current according to practical load, comes to steady and smooth, reaches the optimum of comfortability, stability as well as energy-saving during operation.



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# Elevator overload watching system

## OMS-520

### Elevator overload watching system

**Product Characteristics**





- 1 sensor channel
- Floor compensation function
- Analog output with voltage
- Expandable sensor channels by connecting the junction box



Product Function	<ul style="list-style-type: none"><li>■ Four digit LED digital tube display</li><li>■ Quick installation, fixed installation with rails and screws</li><li>■ Multi button operation, quick and easy debugging</li><li>■ Green, high-efficiency, low energy power supply</li><li>■ 1 sensor measurement channel (up to 4 channels can be increased)</li></ul>	
	<ul style="list-style-type: none"><li>■ Weight and percentage display (custom settings)</li><li>■ AC/DC 10~45V output at the "HOLD" end</li><li>■ 4 relay outputs (no load, half load, heavy load, overload)</li><li>■ Linear voltage analog output: -10~+10V (* standard configuration)</li><li>■ Constant current analog output: 4~20mA (* optional)</li></ul>	
Model	OMS-520	

Operating voltage	AC/DC 16~48V
Nominal power	≤4W
Load cell channel	1*
Relay number	4(Overload,Full load,Half load,Empty load)
Contact load	1A 125VAC / 2A 30VDC、5A 250VAC / 5A 30VDC
Display type	4 digits 0.56 inch LED
Display mode	Weight/Percentage
Key number	6
Voltage analog	-10~+10V、0~+10V
Current analog	4~20mA
Sensor operating voltage	5VDC
Signal hold voltage	AC/DC 10~45V
Operating temperature	-20~+60℃
Size	90×77.5×59mm
Weight	270g

### Installation Solution



RHP-EUC-APUC-HRH-A100/200/300


# Elevator overload watching system

## OMS-560

### Elevator overload watching system

**Product Characteristics**





- 2 sensor channels
- Sound and light prompt relay
- With operation signal "HOLD" function
- Expandable sensor channels by connecting the junction box



Product Function	<ul style="list-style-type: none"><li>■ Four digit LED digital tube display</li><li>■ Quick installation, fixed installation with rails and screws</li><li>■ Multi button operation, quick and easy debugging</li><li>■ Green, high-efficiency, low energy power supply</li><li>■ 2 sensor measurement channels (up to 8 channels can be increased)</li></ul>	
	<ul style="list-style-type: none"><li>■ Weight and percentage display (custom settings)</li><li>■ AC/DC 10~45V output at the "HOLD" end</li><li>■ Built-in buzzer alarm reminder</li><li>■ 5 relay outputs (no load, heavy load, overload, sound, light)</li></ul>	
Model	OMS-560	

Operating voltage	AC/DC 16 ~ 48V
Nominal power	≤4W
Load cell channel	2*
Relay number	5(Overload,Full load,Empty load, Optical,Acoustic)
Contact load	8A 250VAC、5A 250VAC / 5A 30VDC
Display type	4 digits 0.56 inch LED
Display mode	Weight/Percentage
Key number	6
Sensor operating voltage	5VDC
Measuring precision	AC/DC 10~45V
Operating temperature	-20~+60℃
Shell material	ABS
Size	90×84×58mm
Weight	265g

### Installation Solution



RHP-EUC-APUC-HRH-A100/200/300


# Elevator overload watching system

## OMS-820

Elevator overload watching system

Product Characteristics

- 2 sensor channels
- Belt loose rope and rope deviation alarm
- Supports 8-way sensor signal lookup function
- Expandable sensor channels by connecting the junction box




Product Function	<div><ul style="list-style-type: none"><li>■ Four digit LED digital tube display</li><li>■ Multi button operation, quick and easy debugging</li><li>■ Green, high-efficiency, low energy power supply</li><li>■ Broken and loose rope alarm output protection</li><li>■ Wire rope tension imbalance alarm output and tension adjustment indication</li></ul></div> <div><ul style="list-style-type: none"><li>■ 2 sensor measurement channels (up to 8 channels can be increased)</li><li>■ Voltage or current analog output (* optional)</li><li>■ Car load status display (external display module * optional)</li><li>■ AC/DC 12~230V output at the "HOLD" end</li><li>■ Custom settings for relay action mode</li></ul></div>
Model	OMS-820

Operating voltage	AC/DC 16 ~ 48V
Nominal power	≤4W
Load cell channel	2*
Relay number	6 ( Overload,Full , Half empty , Rope loose, Rope deviation )
Contact load	1A 125VAC / 2A 30VDC、5A 250VAC / 5A 30VDC
Display type	4 digits 0.36 inch LED
Display mode	Weight/Percentage
Key number	6
Voltage analog	-10 ~ +10V、0 ~ +10V
Current analog	4 ~ 20mA
Sensor operating voltage	5VDC
Signal hold voltage	AC/DC 12 ~ 230V
Operating temperature	-20~+60℃
Size	90 × 84 × 58mm
Weight	260g

Installation Solution











RHP-E

UC-AP

UC-H

RH-A100/200/300

RH-SM

# Elevator overload watching system

## OMS-160

Elevator overload watching system

Product Characteristics

- Compact size



Product Function	<div><ul style="list-style-type: none"><li>■ Segmental LCD liquid crystal display</li><li>■ Highly reliable anti-interference performance</li><li>■ Quick installation, fixed installation with rails and screws</li><li>■ Green, high-efficiency, low energy power supply</li><li>■ Multi button operation, quick and easy debugging</li></ul></div> <div><ul style="list-style-type: none"><li>■ 1 sensor measurement channel (up to 4 channels can be increased)</li><li>■ Weight and percentage display (custom settings)</li><li>■ AC/DC 10~45V output at the "HOLD" end</li></ul></div>
Model	OMS-160

Operating voltage	AC/DC 16 ~ 48V
Nominal power	≤4W
Load cell channel	1*
Relay number	1 (Overload )
Contact load	8A 250VAC、5A 250VAC / 5A 30VDC
Display type	LCD
Display mode	Weight/Percentage
Key number	4
Sensor operating voltage	5VDC
Signal hold voltage	AC/DC 10~45V
Operating temperature	-20~+60℃
Shell material	ABS
Size	80 × 43 × 54mm
Weight	185g

Installation Solution







RHP-E

UC-H

RH-A100/200/300




# Elevator overload watching system

## OMS-710/720/730

### Elevator overload watching system

**Product Characteristics**

- Integrated structural design
- Based on Hall induction principle
- Detect displacement changes, effective sensing distance 2~9mm

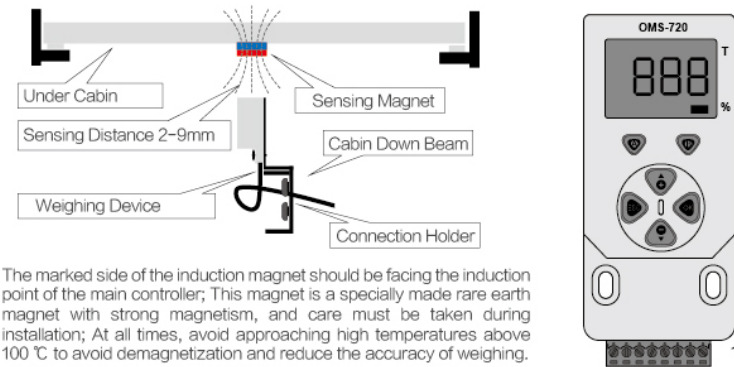


Product Function	<ul style="list-style-type: none"><li>■ Multi button operation, quick and easy debugging</li><li>■ Green, high-efficiency, low energy power supply</li><li>■ Durable and reliable</li><li>■ Compact and compact structure, economical, simple and easy to operate</li></ul>	<ul style="list-style-type: none"><li>■ Suitable for installation on the movable car bottom of passenger elevators and other installation methods</li><li>■ 3 sets of relay outputs (light load, heavy load, overload)</li><li>■ Linear voltage analog output: -10~+10V (* Optional)</li><li>■ Constant current analog output: 4~20mA (* Optional)</li></ul>

Model	OMS-710	OMS-720	OMS-730
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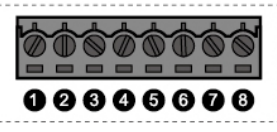
Operating voltage	AC/DC 16~48V		
Nominal power	≤4W		
Relay number	4 ( Overload,Full loa,Half load,Empty load )		
Contact load	1A 125VAC / 2A 30VDC、5A 250VAC / 5A 30VDC		
Display type	4 digits 0.36 inch LED		
Display mode	Weight/Percentage		
Key number	6		
Sensing object	Magnetism object		
Sensing distance	-10~+10V、0~+10V		
Voltage analog	4~20mA		
Current analog	2~9mm		
Signal hold voltage	AC/DC 10~45V		
Operating temperature	-20~+60℃		
Size	80 × 43 × 54mm		
Weight	240g		

### Installation Diagram



The marked side of the induction magnet should be facing the induction point of the main controller; This magnet is a specially made rare earth magnet with strong magnetism, and care must be taken during installation; At all times, avoid approaching high temperatures above 100 °C to avoid demagnetization and reduce the accuracy of weighing.

	OMS-710	OMS-720	OMS-730
1 2	zero load output	zero load output	zero load output
1 3	Heavy load output	Heavy load output	Heavy load output
1 4	Overload output	Overload output	Overload output
5 6	Output signal hold	Voltage analog output (0~+10V)(-10~+10V)	Current analog output (4~20mA)
7 8	power supply	power supply	power supply



1 2 3 4 5 6 7 8


# Lifting load limiter

## OMS-370C

### Lifting load limiter

**Product Characteristics**

- Unique load swing suppression algorithm, effectively and accurately measuring lifting load
- Support for external large screen display
- Programmable output relay signal function
- Built-in buzzer alarm reminder




Product Function	<ul style="list-style-type: none"><li>■ 4-digit LED digital tube display</li><li>■ Quick installation, fixed installation with rails and screws</li><li>■ Multi button operation, quick and easy debugging</li><li>■ Green, high-efficiency, low energy power supply</li></ul>	<ul style="list-style-type: none"><li>■ 2 sensor measurement channels (up to 8 channels can be increased)</li><li>■ Weight and percentage display (custom settings)</li></ul>

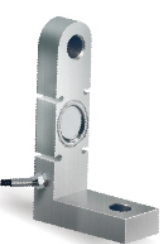
Model	OMS-370C
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Operating voltage	AC/DC 16 ~ 48V
Nominal power	≤4W
Load cell channel	2*
Relay number	Programmable output relay signal function
Contact load	1A 125VAC / 2A 30VDC、5A 250VAC / 5A 30VDC
Display type	4 digits 0.36 inch LED
Display mode	Weight/Percentage
Key number	6
Sensor operating voltage	5VDC
Signal hold voltage	-
Floor compensation	-
Operating temperature	-20~+60℃
Shell material	ABS
Size	90 × 84 × 58mm
Weight	260g


### Installation Solution



CRN-GX



CRN-AN



CRN-BAH




# Lifting load limiter

## SUMT-QZX(A)

Lifting load limiter

Product Characteristics

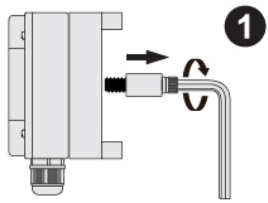
- Meets the requirements of EN81
- Integrated design structure without the need for additional cables to connect



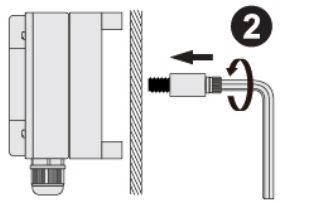
Product Function	<div><div><ul style="list-style-type: none"><li>Has excellent cost-effectiveness</li><li>Four digit LED digital tube and multi status indicator display</li><li>Multi button operation, quick and easy debugging</li><li>Simple debugging, flexible operation, no need to predict weight, intuitive display of load capacity</li></ul></div><div><ul style="list-style-type: none"><li>Green, high-efficiency, low energy power supply</li><li>Easy to install, it only takes a few minutes to complete</li><li>Supports 1 set of relay signal output</li><li>Suitable for single steel wire rope with a diameter of 8-16mm</li></ul></div></div>
Model	SUMT-QZX(A)

Operating voltage	AC/DC 16~48V
Nominal power	≤4W
Relay number	1 ( Overload )
Contact load	8A 250VAC
Display type	4 digits 0.36 inch LED
Display mode	Weight/Percentage
Reasonable rope number	1
Rope diameter	8~16mm
Rated load	4000Kg
Safe overload	150%
Ultimate overload	200%
Operating temperature	-20~+60℃
Size	90 × 84 × 58mm
Cable length	1m
Protection class	IP65

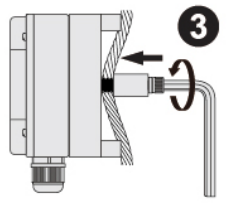
Installation diagram



Use a 6mm Allen wrench to loosen the fixing screw and remove the fixing clip.



The sensor is tightened against the steel wire rope to fall into the U-shaped grooves at both ends of the sensor, and then the U-shaped mouth of the fixed clip removed in the first step is turned towards the steel wire rope into the fixing screw. To improve measurement accuracy, the sensor should be installed as close as possible to the rope end



Tighten the fixing screw with a 6mm Allen wrench to allow the wire rope to compress the sensor.


# Lifting load limiter

## SUMT-QZX(B)

Lifting load limiter

Product Characteristics

- Unique load swing suppression algorithm, effectively and accurately measuring lifting load
- Support for external large screen display
- Programmable output relay signal function
- Built-in buzzer alarm reminder



Product Function	<div><div><ul style="list-style-type: none"><li>4-digit LED digital tube display</li><li>Multi button operation, quick and easy debugging</li><li>Green, high-efficiency, low energy power supply</li><li>Simple debugging, flexible operation, no need to predict weight, intuitive display of load capacity</li></ul></div><div><ul style="list-style-type: none"><li>2 sensor measurement channels</li><li>Weight and percentage display (custom settings)</li><li>Built-in buzzer alarm reminder</li><li>1 relay output</li></ul></div></div>
Model	SUMT-QZX(B)

Operating voltage	AC/DC 16 ~ 48V
Nominal power	≤4W
Load cell channel	1*
Relay number	1 (Overload )
Contact load	8A 250VAC
Display type	4 digits 0.36 inch LED
Display mode	Weight/Percentage
Key number	6
Sensor operating voltage	5V DC
Cable length	1m(standard)
Operating temperature	-20~+60℃
Shell material	ABS
Size	132 × 93 × 52mm
Weight	650g
Protection class	IP65

Installation Solution



CRN-GX



CRN-AN



CRN-BAH

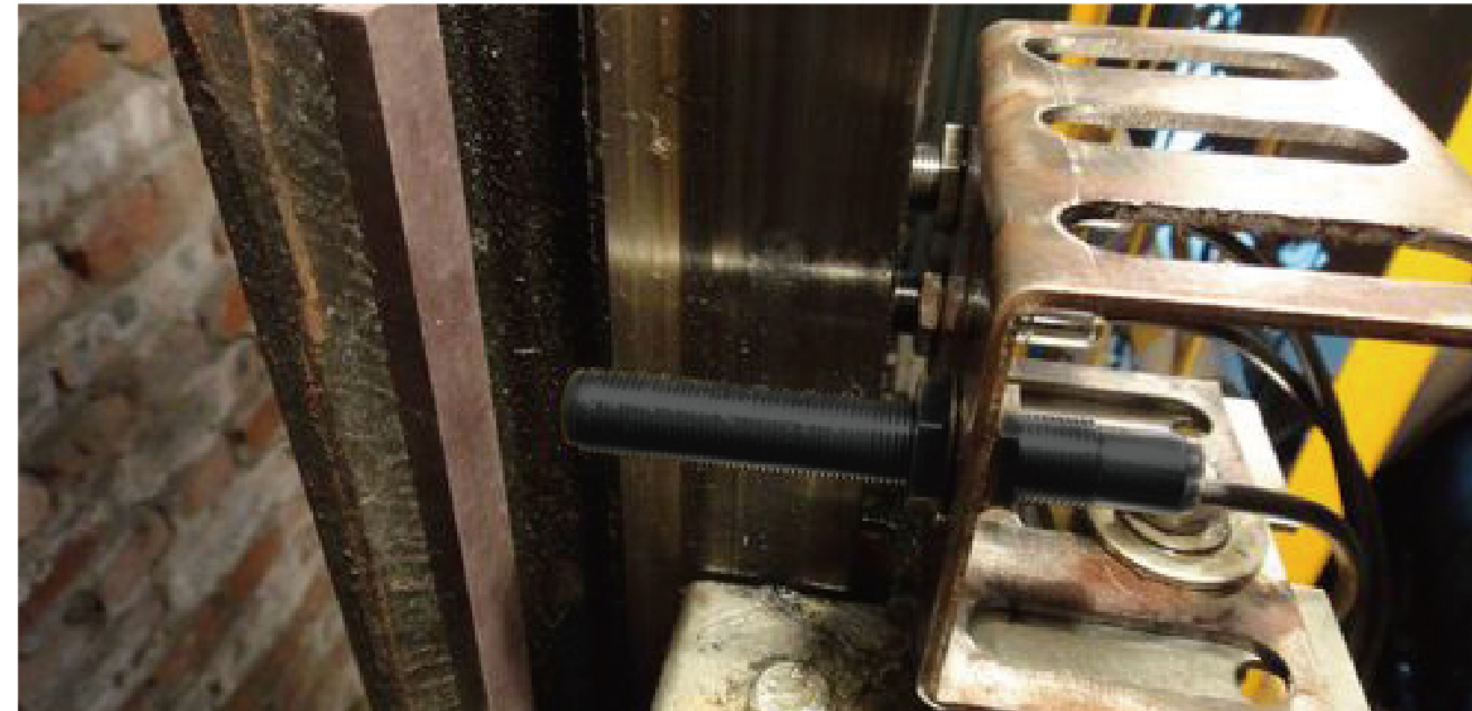


# Accurately measure the position changes and presence status of detection objects



- Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;
- Adopting high-strength induction magnets to maximize the system's anti-interference ability;
- Electrical performance meets the "IEC" standard;
- Accurate positioning, small size, and convenient installation and debugging.

## Magnetic and Photoelectric sensors



## Professional technology that meets customer application requirements

Our expertise in research and development, production, and application covers all sensor technology fields. Therefore, we have integrated Symantec's outstanding advantages in product range, accuracy, and performance into the magnetic sensor product series for position detection.

### Product category

Our magnetic sensor product line is very extensive, covering all magnetic sensor technologies on the market. In addition, the sensor types with different structural designs make our products more diverse. Therefore, you can always find a sensor with comparable performance and structure, bringing the best cost-effectiveness to your application.

### Accurate measurement

The precise structural design and customized induction magnets ensure extremely accurate position measurement results. Due to the use of sturdy and durable materials in our sensors, they are also suitable for various complex environments. Therefore,

customers can benefit from consistent and accurate measurement results, achieving extremely high process quality.

### Solution

As a pioneer in position detection, Symte can provide you with powerful and stable magnetic sensors. Our product design is compact and exquisite, with a wide sensing range, short response time, and high accuracy. With these performance combinations, Symantec is able to provide new solutions for applications that cannot be solved by a single sensor to date.



For specific product information, please refer to the complete product catalog, Or log in to our website.  
[www.summit3e.com](http://www.summit3e.com)



# Slot magnetic reed sensor

## RMS20-PS

Slot magnetic reed sensor

Product Characteristics

- Can be tested in a non-contact manner, so there will be no wear or damage to the tested object
- Adopting contactless output mode, thus extending service life
- Unlike light detection, it is suitable for use in environments such as water and oil
- Almost unaffected by stains, oil, water, etc. of the tested object during testing
- Compared to contact switches, it can achieve high-speed response



Product Function	<ul style="list-style-type: none"><li>Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>Electrical performance meets the "IEC" standard;</li><li>Accurate positioning, small size, and convenient installation and debugging.</li></ul>			
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Model	RMS20-PS-A60	RMS20-PS-A10	RMS20-PS-A20	Customized
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Standards	IEC/EN 60947-5-2	IEC/EN 60947-5-2	IEC/EN 60947-5-2	IEC/EN 60947-5-2
Enclosure	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA
Operating principle	Magnetic	Magnetic	Magnetic	Magnetic
Contact variants	NO	NO	NO	NO
Switching voltage	Max.140VAC	Max.230VAC	Max.150VAC	-
Switching current	Max.1A	Max.0.5A	Max.1A	-
Switching capacity	Max.60VA/W	Max.10VA/W	Max.20VA/W	-
Dielectric strength	250V	400V	200V	-
Switching speed	Max.4ms	Max.2ms	Max.2ms	-
Switching frequency	<500Hz	<500Hz	<500Hz	-
Switching time"closing"	0.15ms	0.1ms	0.02ms	-
Switching time"opening"	4ms	2ms	2ms	-
Bounce time	0.5ms	0.5ms	0.6ms	-
Ambient temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Mechanical life	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>
Electrical life	1million-1 billion	1million-1 billion	1million-1 billion	1million-1 billion
Repeatability	± 0.25mm	± 0.25mm	± 0.25mm	± 0.25mm
Protection class	IP67-EN60529	IP67-EN60529	IP67-EN60529	IP67-EN60529
Dimensions	70 × 70 × 60mm	70 × 70 × 60mm	70 × 70 × 60mm	70 × 70 × 60mm
Slot opening	20mm	20mm	20mm	20mm
Cable length	2m(standard)	2m(standard)	2m(standard)	2m(standard)

# Slot magnetic reed sensor

## RMS20-PS

Slot magnetic reed sensor

Product Characteristics

- Can be tested in a non-contact manner, so there will be no wear or damage to the tested object
- Adopting contactless output mode, thus extending service life
- Unlike light detection, it is suitable for use in environments such as water and oil
- Almost unaffected by stains, oil, water, etc. of the tested object during testing
- Compared to contact switches, it can achieve high-speed response



Product Function	<ul style="list-style-type: none"><li>Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>Electrical performance meets the "IEC" standard;</li><li>Accurate positioning, small size, and convenient installation and debugging.</li></ul>			
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Model	RMS20-PS-C60	RMS20-PS-C10	RMS20-PS-B60	RMS20-PS-B10
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Standards	IEC/EN 60947-5-2	IEC/EN 60947-5-2	IEC/EN 60947-5-2	IEC/EN 60947-5-2
Enclosure	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA
Operating principle	Magnetic	Magnetic	Magnetic	Magnetic
Contact variants	NC	NC	BI	BI
Switching voltage	Max.140VAC	Max.230VAC	Max.140VAC	Max.230VAC
Switching current	Max.1A	Max.0.5A	Max.1A	Max.0.5A
Switching capacity	Max.60VA/W	Max.10VA/W	Max.60VA/W	Max.10VA/W
Dielectric strength	250V	400V	250V	400V
Switching speed	Max.4ms	Max.2ms	Max.4ms	Max.2ms
Switching frequency	<500Hz	<500Hz	<500Hz	<500Hz
Switching time"closing"	0.15ms	0.1ms	0.15ms	0.1ms
Switching time"opening"	4ms	2ms	4ms	2ms
Bounce time	0.5ms	0.5ms	0.5ms	0.5ms
Ambient temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Mechanical life	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>
Electrical life	1million-1 billion	1million-1 billion	1million-1 billion	1million-1 billion
Repeatability	± 0.25mm	± 0.25mm	± 0.25mm	± 0.25mm
Protection class	IP67-EN60529	IP67-EN60529	IP67-EN60529	IP67-EN60529
Dimensions	70 × 70 × 60mm	70 × 70 × 60mm	70 × 70 × 60mm	70 × 70 × 60mm
Slot opening	20mm	20mm	20mm	20mm
Cable length	2m(standard)	2m(standard)	2m(standard)	2m(standard)

# Rectangle magnetic reed sensor

## RMS68-PR

### Rectangle magnetic reed sensor

**Product Characteristics**

- Can be tested in a non-contact manner, so there will be no wear or damage to the tested object
- Adopting contactless output mode, thus extending service life
- Unlike light detection, it is suitable for use in environments such as water and oil
- Almost unaffected by stains, oil, water, etc. of the tested object during testing
- Compared to contact switches, it can achieve high-speed response



Product Function	<ul style="list-style-type: none"><li>■ Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>■ Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>■ Electrical performance meets the "IEC" standard;</li><li>■ Accurate positioning, small size, and convenient installation and debugging.</li></ul>			
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Model	RMS68-PR-A80	RMS68-PR-A60	RMS68-PR-A10	RMS68-PR-A20
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Standards	IEC/EN 60947-5-2	IEC/EN 60947-5-2	IEC/EN 60947-5-2	IEC/EN 60947-5-2
Enclosure	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA
Operating principle	Magnetic	Magnetic	Magnetic	Magnetic
Contact variants	NO	NO	NO	NO
Switching voltage	Max.250VAC	Max.140VAC	Max.230VAC	Max.150VAC
Switching current	Max.1.3A	Max.1A	Max.0.5A	Max.1A
Switching capacity	Max.80VA/W	Max.60VA/W	Max.10VA/W	Max.20VA/W
Dielectric strength	800V	250V	400V	200V
Switching speed	Max.3.5ms	Max.4ms	Max.2ms	Max.2ms
Switching frequency	<500Hz	<500Hz	<500Hz	<500Hz
Switching time"closing"	0.2ms	0.15ms	0.1ms	0.02ms
Switching time"opening"	3.5ms	4ms	2ms	2ms
Bounce time	0.5ms	0.5ms	0.5ms	0.6ms
Ambient temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Mechanical life	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>
Electrical life	1million-1 billion	1million-1 billion	1million-1 billion	1million-1 billion
Repeatability	± 0.25mm	± 0.25mm	± 0.25mm	± 0.25mm
Protection class	IP67-EN60529	IP67-EN60529	IP67-EN60529	IP67-EN60529
Dimensions	68×35×15mm	68×35×15mm	68×35×15mm	68×35×15mm
Cable length	2m(standard)	2m(standard)	2m(standard)	2m(standard)

# Rectangle magnetic reed sensor

## RMS68-PR

### Rectangle magnetic reed sensor

**Product Characteristics**

- Can be tested in a non-contact manner, so there will be no wear or damage to the tested object
- Adopting contactless output mode, thus extending service life
- Unlike light detection, it is suitable for use in environments such as water and oil
- Almost unaffected by stains, oil, water, etc. of the tested object during testing
- Compared to contact switches, it can achieve high-speed response



Product Function	<ul style="list-style-type: none"><li>■ Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>■ Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>■ Electrical performance meets the "IEC" standard;</li><li>■ Accurate positioning, small size, and convenient installation and debugging.</li></ul>				
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Model	RMS68-PR-C80	RMS68-PR-C60	RMS68-PR-C10	RMS68-PR-B80	RMS68-PR-B60
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Standards	IEC/EN60947-5-2	IEC/EN60947-5-2	IEC/EN60947-5-2	IEC/EN60947-5-2	IEC/EN60947-5-2
Enclosure	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA
Operating principle	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic
Contact variants	NC	NC	NC	BI	BI
Switching voltage	Max.230VAC	Max.140VAC	Max.230VAC	Max.230VAC	Max.140VAC
Switching current	Max.1A	Max.1A	Max.0.5A	Max.1A	Max.1A
Switching capacity	Max.80VA/W	Max.60VA/W	Max.10VA/W	Max.80VA/W	Max.60VA/W
Dielectric strength	400V	250V	400V	400V	250V
Switching speed	Max.4ms	Max.4ms	Max.2ms	Max.4ms	Max.4ms
Switching frequency	<500Hz	<500Hz	<500Hz	<500Hz	<500Hz
Switching time"closing"	0.1ms	0.15ms	0.1ms	0.1ms	0.15ms
Switching time"opening"	4ms	4ms	2ms	4ms	4ms
Bounce time	0.5ms	0.5ms	0.5ms	0.5ms	0.5ms
Ambient temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Mechanical life	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>	Min.10 <sup>8</sup>
Electrical life	1million-1 billion	1million-1 billion	1million-1 billion	1million-1 billion	1million-1 billion
Repeatability	± 0.25mm	± 0.25mm	± 0.25mm	± 0.25mm	± 0.25mm
Protection class	IP67-EN60529	IP67-EN60529	IP67-EN60529	IP67-EN60529	IP67-EN60529
Dimensions	68×35×15mm	68×35×15mm	68×35×15mm	68×35×15mm	68×35×15mm
Cable length	2m(standard)	2m(standard)	2m(standard)	2m(standard)	2m(standard)



# Plastic half-threaded magnetic reed sensor RMS12-PH

### Plastic half-threaded Hall proximity sensor

**Product Characteristics**

- Free choice of accessories, suitable for installation for various purposes
- Can perform high-precision position detection

磁铁感应方向  
感应面



Product Function	<ul style="list-style-type: none"><li>Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>Electrical performance meets the "IEC" standard;</li><li>Accurate positioning, small size, and convenient installation and debugging.</li></ul>			
	Model	RMS12-PH-A80	RMS12-PH-A10	RMS12-PH-C60
				RMS12-PH-B80

Enclosure	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA
Contact variants	NO	NO	NC	BI
Switching voltage	Max.250VAC	Max.150VAC	Max.230VAC	Max.150VAC
Switching current	Max.1.3A	Max.0.5A	Max.1A	Max.0.5A
Switching capacity	Max.80VA/W	Max.10AV/W	Max.60AV/W	Max.10AV/W
Dielectric strength	800V	200V	400V	200V
Ambient temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Cable length	2m(standard)	2m(standard)	2m(standard)	2m(standard)

### Contact type

1 NO Contact Magnet with South Pole

1 NC Contact Magnet with South Pole

1 BI Contact Magnets with South and North Poles

### Size(mm)

# Plastic full-thread sensor RMS12-PT

### Plastic full-thread sensor

**Product Characteristics**

- Free choice of accessories, suitable for installation for various purposes
- Can perform high-precision position detection

OFF HOLD ON OFF  
-Y mm 0 X Y mm  
Z mm



Product Function	<ul style="list-style-type: none"><li>Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>Electrical performance meets the "IEC" standard;</li><li>Accurate positioning, small size, and convenient installation and debugging.</li></ul>			
	Model	RMS12-PT-A80	RMS12-PT-A10	RMS12-PT-C60
				RMS12-PT-B80

Enclosure	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA
Contact variants	NO	NO	NC	BI
Switching voltage	Max.250VAC	Max.150VAC	Max.230VAC	Max.150VAC
Switching current	Max.1.3A	Max.0.5A	Max.1A	Max.0.5A
Switching capacity	Max.80AV/W	Max.10AV/W	Max.60AV/W	Max.10AV/W
Dielectric strength	800V	200V	400V	200V
Ambient temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Cable length	2m(standard)	2m(standard)	2m(standard)	2m(standard)

### Installation diagram of accessories

- The sensor is inserted into the support frame hole and can be moved along the jaw.
- Adjust the sensor to the appropriate position and tighten it with screws.
- The support frame has two vertical slots that can be inserted into two vertical slide rails to achieve the installation of sensors in different planes.

### Size(mm)

Plastic half-threaded Hall proximity sensor  
RMS12-PH

Plastic half-threaded Hall proximity sensor

**Product Characteristics**

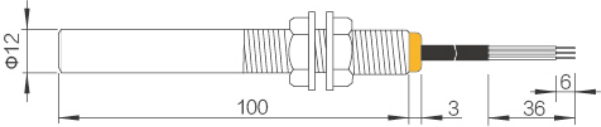
- Free choice of accessories, suitable for installation for various purposes
- Can perform high-precision position detection



Product Function	<ul style="list-style-type: none"><li>Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>Electrical performance meets the "IEC" standard;</li><li>Accurate positioning, small size, and convenient installation and debugging.</li></ul>			
Model	RMS12-PH-DC	RMS12-PH-DO	RMS12-PH-EC	RMS12-PH-EO

Enclosure	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA
Output circuit structure	NPN	PNP	NPN	PNP
supply voltage	5~30VDC	5~30VDC	5~30VDC	5~30VDC
Output capacity	150mA	150mA	150mA	150mA
Detection object	Magnetic stripe	Magnetic stripe	Magnetic stripe	Magnetic stripe
Detection distance	0~30mm	0~30mm	0~30mm	0~30mm
Indicator light	Red LED	Red LED	Red LED	Red LED
Working mode	NC	NO	NC	NO
working temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Repeatability	250ms	250ms	250ms	250ms
Output response time	1ms	1ms	1ms	1ms
Output protection circuit	Short circuit protection	Short circuit protection	Short circuit protection	Short circuit protection
Cable length	2m(standard)	2m(standard)	2m(standard)	2m(standard)

Size(mm)




Plastic full-thread Hall proximity sensor  
RMS12-PT

Plastic full-thread Hall proximity sensor

**Product Characteristics**

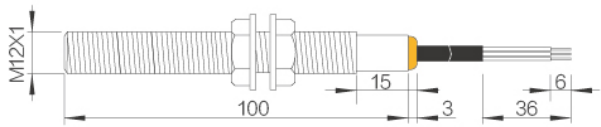
- Free choice of accessories, suitable for installation for various purposes
- Can perform high-precision position detection



Product Function	<ul style="list-style-type: none"><li>Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>Electrical performance meets the "IEC" standard;</li><li>Accurate positioning, small size, and convenient installation and debugging.</li></ul>			
Model	RMS12-PT-DC	RMS12-PT-EO	RMS12-PT-DC	RMS12-PT-EO

Enclosure	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA	Glass-fibre PA
Output circuit structure	NPN	PNP	NPN	PNP
supply voltage	5~30VDC	5~30VDC	5~30VDC	5~30VDC
Output capacity	150mA	150mA	150mA	150mA
Detection object	Magnetic stripe	Magnetic stripe	Magnetic stripe	Magnetic stripe
Detection distance	0~30mm	0~30mm	0~30mm	0~30mm
Indicator light	Red LED	Red LED	Red LED	Red LED
Working mode	NC	NO	NC	NO
working temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Repeatability	250ms	250ms	250ms	250ms
Output response time	1ms	1ms	1ms	1ms
Output protection circuit	Short circuit protection	Short circuit protection	Short circuit protection	Short circuit protection
Cable length	2m(standard)	2m(standard)	2m(standard)	2m(standard)

Size(mm)





# Hall proximity sensor

## LC-MV59X

### Hall proximity sensor

#### Product Characteristics

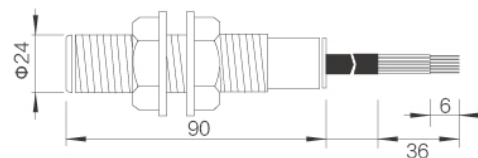
- This device is suitable for all mobile car bottom elevators that require overload signals and escalators that require energy-saving operation. It has a high cost-effectiveness and overcomes the inherent disadvantage of low sensitivity of mechanical overload switches.



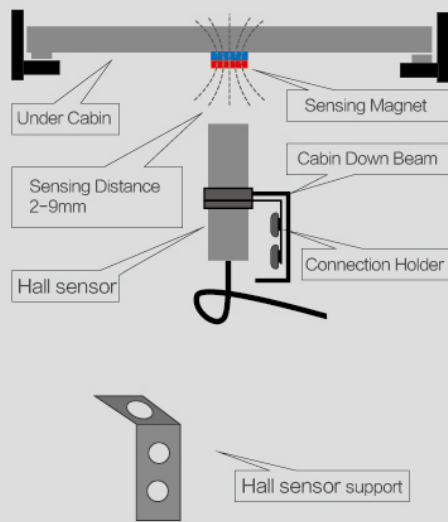
Product Function	<ul style="list-style-type: none"><li>■ Contactless induction operation mode, without mechanical movement, directly installed in the original overload switch position without changing the elevator structure;</li><li>■ Adopting high-strength induction magnets to maximize the system's anti-interference ability;</li><li>■ Electrical performance meets the "IEC" standard;</li><li>■ Accurate positioning, small size, and convenient installation and debugging.</li></ul>
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Model	LC-MV59X
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Detection distance	2~9mm+15%
movement differential	15% maximum sensing distance
Detection object	Magnetic steel
Response frequency	0.2KHz
input voltage	12~24VDC
type of output	Relay output (1 normally closed, 1 normally open)
Indicator light	Red LED (signal output)
Temperature effect	The working temperature range is -20~+60℃, which is less than 5% of the detection distance at 23℃
Voltage influence	Within the range of ± 10% change in rated voltage, the rated voltage is detected to be below 2.5%
Insulation impedance	50M Ω
Insulation strength	Insulation voltage 500V per minute
Connection method	Lead out type (standard length 1.2 meters)

size(mm)	
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### Installation diagram



- The system connection bracket can be prepared by the customer themselves.
- Please refer to the diagram above to install this device with a system bracket on the mobile car platform, and try to install it as close to the middle of the car platform as possible.
- Attach the magnet to the car bottom, with the sign facing the sensing point of the device.
- Install and adjust this device so that the magnet aligns with the center point of its upper end face. At the same time, it is necessary to ensure that the end face of this device is parallel to the end face of the magnet.
- When the elevator is rated, adjust the device up and down so that its indicator light just turns green. At this point, tighten the device and the installation is complete.

# Slot type photoelectric sensor

## SLO-30VB

### Slot type photoelectric sensor

#### Product Characteristics

- Not affected by external light interference, with built-in micro photoelectric sensor with wire amplifier

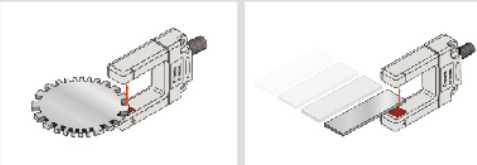


Product Function	<ul style="list-style-type: none"><li>■ Variable dimming type unaffected by external light interference</li><li>■ Bring in light display light</li></ul>
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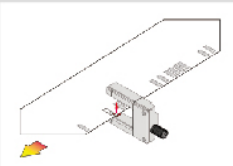
Model	SLO-30VB
-------	----------

Slot width	30mm × 45mm, Beam distance from outer edge 10mm
Voltage and current	10~30VDC, 30mA
Power protection circuit	Protected against reverse polarity and transient voltages
Output circuit structure	Bipolar
Output capacity	Each output is 150mA
Output protection circuit	Prevent erroneous pulses during power on and output short circuits
Output response time	1ms or 300ms, depending on specific model
Repeatability	250ms or 75ms, depending on specific model
Adjustability	Non adjustable
Pilot lamp	Green
Yellow	Power on/off
Material quality	Structure
Lens	Acrylic organic glass
Environmental limitations	IP67 NEMA6
Anti-interference ability	Illumination of the receiving surface: Incandescent lamp below 3000lx Sunlight below 10000 lx
Connect	2 m (6.5') 5-conductor PVC-jacketed attached cable.
Working conditions	Temperature
Maximum relative humidity	-20~+60℃ 90%, At 50℃ (without condensation)
Insulation resistance	20MΩ (500VDC megohmmeter) between the overall conductor and the housing
Withstand voltage	AC1000V 50/60Hz 1min between the overall conductor and the housing
Vibration (durable)	Up and down amplitudes of 1.5mm at 10~55Hz for 2h in X, Y, and Z directions

### Typical applications

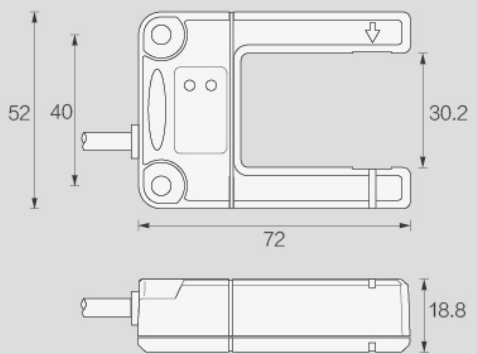


Gear tooth detection Edge detection



Encoding reading  
Encoding hole punched on non transparent material

### Size (mm)

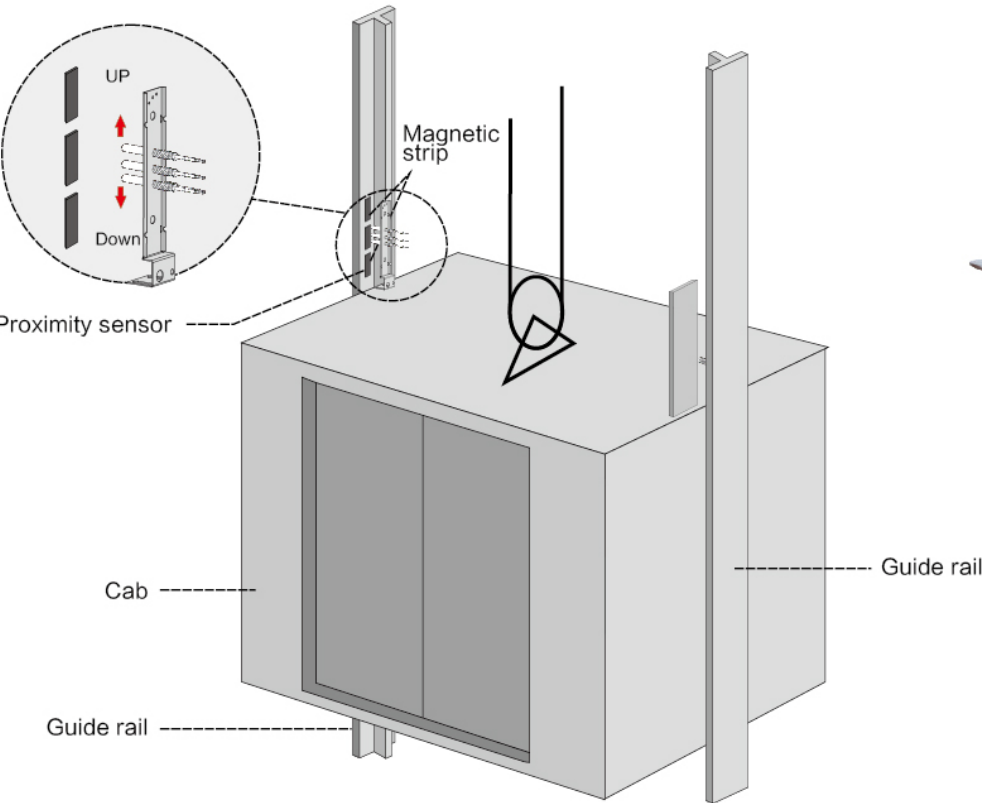


# Fixed accessories

## Installation Solution I

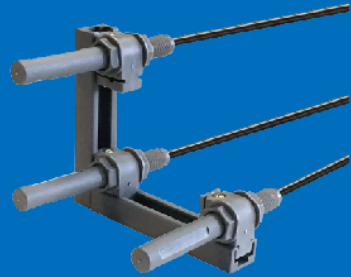
### Installation method:

The sensor is fixed on the car: it moves up and down, and the magnetic strip is fixed on the guide rail or wall.



# Fixed accessories

## Installation Solution II



The sensor needs to be installed on the car roof using a combination of slide rails and brackets provided by Symt. We have different lengths of slide rails that can be directly fixed to the car roof using suitable mounting holes or glue. The sensor installation is convenient and simple.

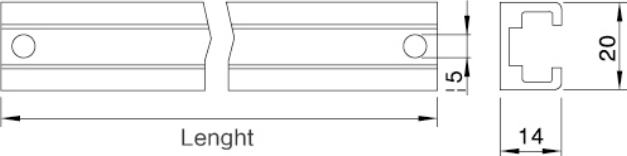
### Guide rail

Material: unflammmable nylon glass

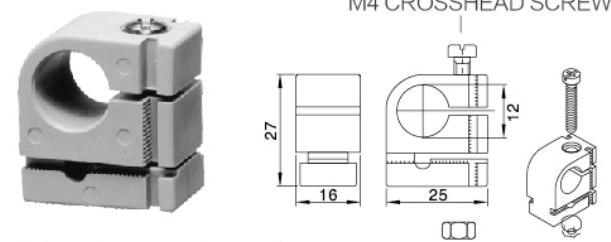


### Attachment details

LENGHT	CODE
250	701-901-233
150	701-901-234
100	701-901-235
30	701-901-236



### Support



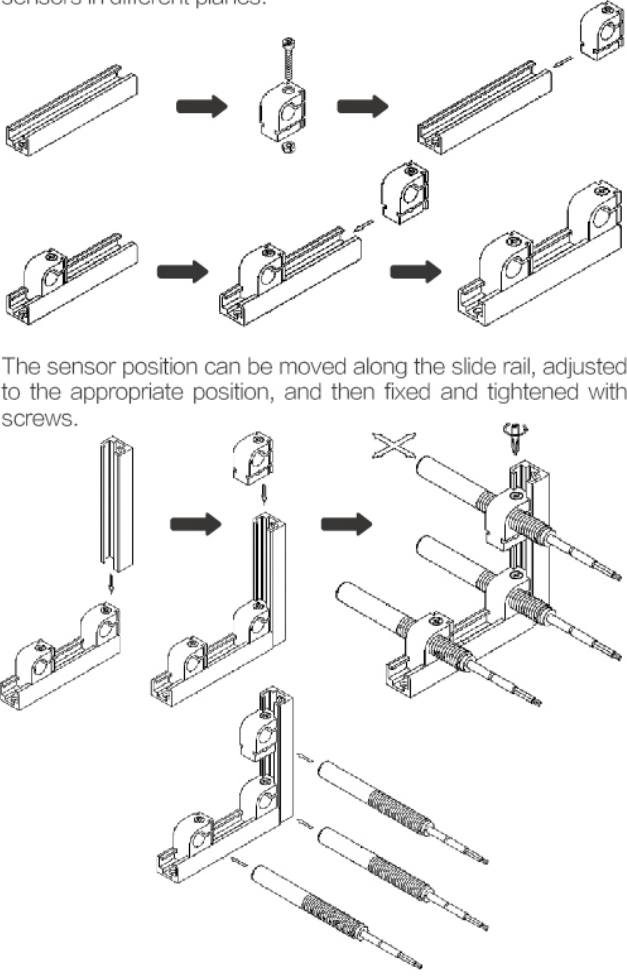
### Attachment details

CODE
701-901-232

### Installation steps

The sensor is inserted into the support frame hole and can be moved along the jaw.

Adjust the sensor to the appropriate position and tighten it with screws. The support frame has two vertical slots that can be inserted into two vertical slide rails to achieve the installation of sensors in different planes.







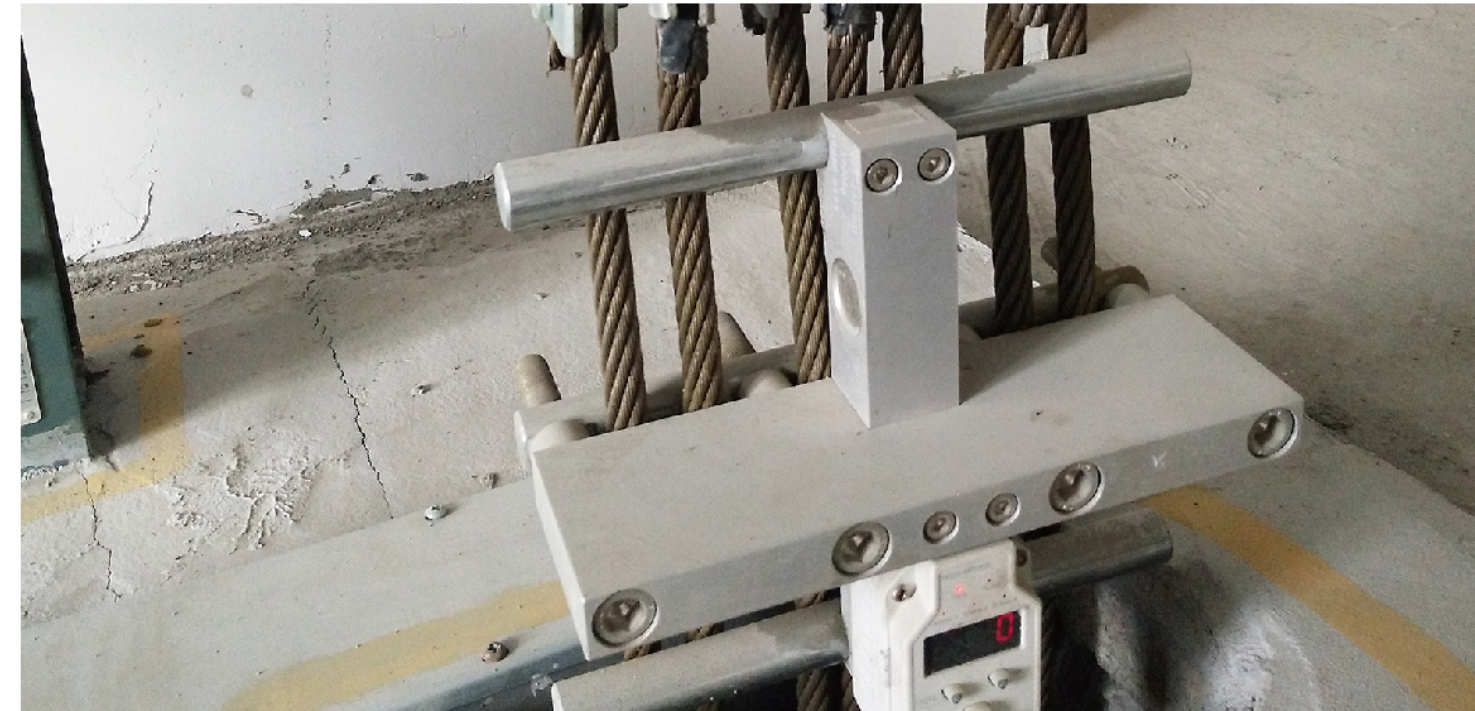


Anti lodging  
Anti biasing  
Anti interference



The elastic structure of the sensor is special, with good bending and torsion resistance, thereby improving the natural frequency and anti overturning, anti deviation, anti-interference and other characteristics of the sensor. The installation and connection of the sensor can use specialized connecting components, which is convenient and reliable for installation.

## Sensor installation solution



## Reliable load measurement sensor solution For the elevator and lifting industry

With its comprehensive product structure, Symantec can provide you with professional solutions designed to meet demanding conditions. The high durability, reliability, and efficiency of use are the main characteristics of Symantec products, and their advantages are often praised by customers.

The elastic body of the sensor is made of high-quality specialized metal materials, and four strain gauges R1, R2, R3, and R4 are pasted on the surface of the strain sensitive area to form a Wheatstone bridge. When subjected to external force  $F$ , the elastic body deforms, causing strain gauges R1 and R3 to be stretched and the resistance value to increase; R2 and R4 are compressed, reducing the resistance value, causing the bridge to lose balance and outputting a voltage signal proportional to the external force  $F$ .

Due to its high sensitivity, wide measurement range, simple circuit structure, high accuracy, and easy implementation of temperature compensation, the measuring bridge can meet the requirements of strain measurement very well.



For specific product information, please refer to the complete product catalog, Or log in to our website.  
[www.summit3e.com](http://www.summit3e.com)



# Pressure sensor

## RHP-E/F/G

### Rope head installation solution

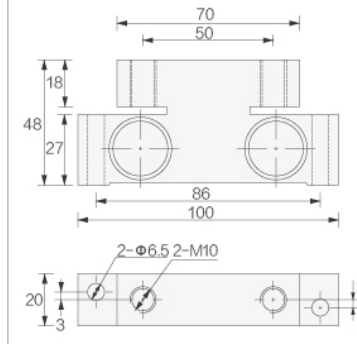
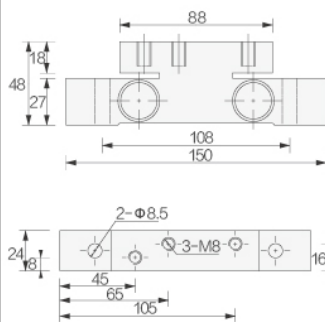
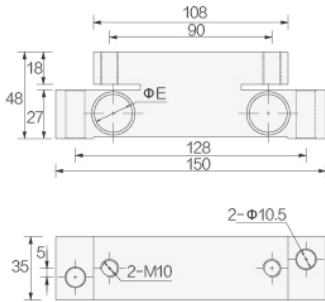
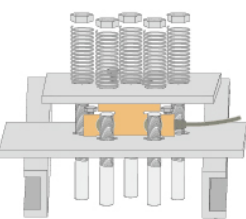
#### Structural Sharacteristics

- The elastic structure of the sensor is special, with good bending and torsion resistance, thereby improving the natural frequency and anti overturning, anti deviation, anti-interference and other characteristics of the sensor. The installation and connection of the sensor can use specialized connecting components, which is convenient and reliable for installation.



Model	RHP-E	RHP-F	RHP-G
Rated load	1000 / 3000 / 5000kg	1000 / 3000kg	1000kg
Sensitivity	2.0±0.02%mV/V	2.0±0.02%mV/V	2.0±0.02%mV/V
Total error	±0.5% F.S	±0.5% F.S	±0.5% F.S
Creep error	±0.02% F.S	±0.02% F.S	±0.02% F.S
TC SPAN	±0.02% F.S / 10℃	±0.02% F.S / 10℃	±0.02% F.S / 10℃
Working temperature	-20~+60℃	-20~+60℃	-20~+60℃
Input impedance	760±10Ω	760±10Ω	380±20Ω
Output impedance	700±2Ω	700±2Ω	352±3Ω
Safe overload	150% F.S	150% F.S	150% F.S
Ultimate overload	200% F.S	200% F.S	200% F.S
Excitation	5~12VDC	5~12VDC	5~12VDC
Max.excitation	15VDC	15VDC	15VDC
Insulation impedance	≥5000MΩ	≥5000MΩ	≥5000MΩ
Protection class	IP67 / IP68	IP67 / IP68	IP67 / IP68
Construction	Alloy Steel	Alloy Steel	Alloy Steel
Cable length	5m	5m	5m

size(mm)



# Pressure sensor

## RHP-X/CRN-GX

### Load bearing beam installation solutio

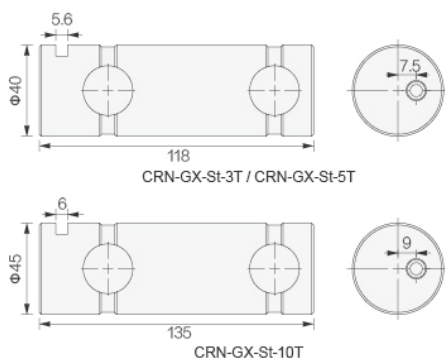
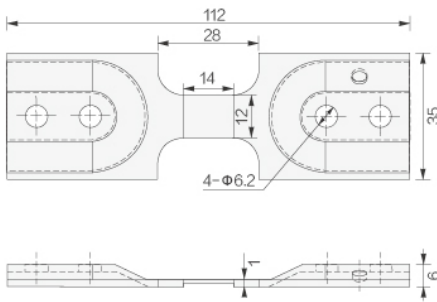
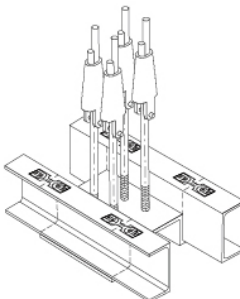
#### Structural Sharacteristics

- The elastic structure of the sensor is special, with good bending and torsion resistance, thereby improving the natural frequency and anti overturning, anti deviation, anti-interference and other characteristics of the sensor. The installation and connection of the sensor can use specialized connecting components, which is convenient and reliable for installation.



Model	RHP-X	CRN-GX
Rated load	500 / 1000 / 3000 / 5000kg	3000 / 5000 / 10000kg
Sensitivity	2.0±0.02%mV/V	2.0±0.02%mV/V
Total error	±0.5% F.S	±0.5% F.S
Creep error	±0.02% F.S	±0.02% F.S
TC SPAN	±0.02% F.S / 10℃	±0.02% F.S / 10℃
Working temperature	-20~+60℃	-20~+60℃
Input impedance	380±20Ω	760±10Ω
Output impedance	352±3Ω	700±2Ω
Safe overload	150% F.S	150% F.S
Ultimate overload	200% F.S	200% F.S
Excitation	5~12VDC	5~12VDC
Max.excitation	15VDC	15VDC
Insulation impedance	≥5000MΩ	≥5000MΩ
Protection class	IP67 / IP68	IP67 / IP68
Construction	Alloy Steel	Alloy Steel
Cable length	1.8m	5m

size(mm)



# Pressure sensor

## UC-DH/H

### Mobile car bottom installation solution

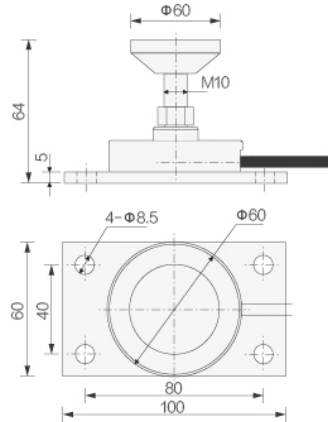
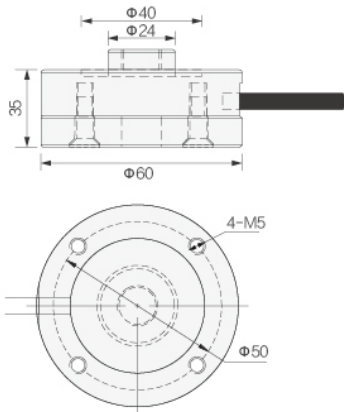
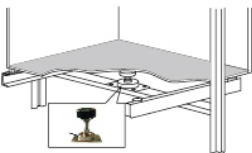
#### Structural Sharacteristics

- The elastic structure of the sensor is special, with good bending and torsion resistance, thereby improving the natural frequency and anti overturning, anti deviation, anti-interference and other characteristics of the sensor. The installation and connection of the sensor can use specialized connecting components, which is convenient and reliable for installation.



Model	UC-DH	UC-H
Rated load	500 / 1000 / 2000kg	500 / 1000 / 2000kg
Sensitivity	2.0 ± 0.02% mV/V	2.0 ± 0.02% mV/V
Total error	± 0.5% F.S	± 0.5% F.S
Creep error	± 0.02% F.S	± 0.02% F.S
TC SPAN	± 0.02% F.S / 10 °C	± 0.02% F.S / 10 °C
Working temperature	-20~+60 °C	-20~+60 °C
Input impedance	380 ± 20 Ω	760 ± 10 Ω
Output impedance	352 ± 3 Ω	700 ± 2 Ω
Safe overload	150% F.S	150% F.S
Ultimate overload	200% F.S	200% F.S
Excitation	5~12VDC	5~12VDC
Max.excitation	15VDC	15VDC
Insulation impedance	≥ 5000M Ω	≥ 5000M Ω
Protection class	IP67 / IP68	IP67 / IP68
Construction	Alloy Steel	Alloy Steel
Cable length	1.8m	1.8m

size(mm)



# Pressure sensor

## UC-AP

### Mobile car bottom installation solution

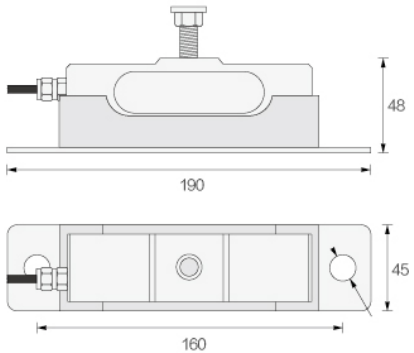
#### Structural Sharacteristics

- The elastic structure of the sensor is special, with good bending and torsion resistance, thereby improving the natural frequency and anti overturning, anti deviation, anti-interference and other characteristics of the sensor. The installation and connection of the sensor can use specialized connecting components, which is convenient and reliable for installation.

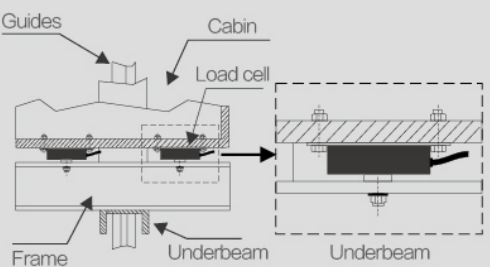
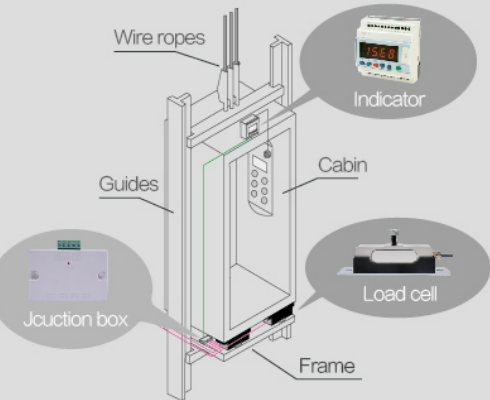


Model	UC-AP
Range	800KG
Rated Output	2.0 ± 0.02% mV/V
Excitation Voltage	≤ 15VDC
Input Impedance	1030 ± 10 Ω
Out Impedance	1000 ± 2 Ω
Insulation Impedance	≥ 5000M Ω
Safe Overload	150% F.S
Ultimate Overload	200% F.S
Error	± 0.5% F.S
Repeatability	± 0.5% F.S
Null Balance	± 1% F.S
Product Creep	± 0.05% F.S/30min
Temperature Effect	± 0.02% F.S/10 °C
Operation Temperature	-20~+60 °C
Material	Aerometal
Protect Class	IP67/IP68

size(mm)



### Sensor installation diagram





# Tension sensor

## RH-A100/200/300

### Solution for measuring the tension of steel wire ropes

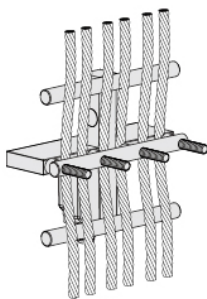
#### Structural Sharacteristics

- The elastic structure of the sensor is special, with good bending and torsion resistance, thereby improving the natural frequency and anti overturning, anti deviation, anti-interference and other characteristics of the sensor. The installation and connection of the sensor can use specialized connecting components, which is convenient and reliable for installation.



Model	RH-A100	RH-A200	RH-A300
Rated load	3000kg	3000kg	4500kg
Wire rope diameter	6-23mm	6-23mm	6-23mm
Rated output	2.0±0.02%mV/V	2.0±0.02%mV/V	2.0±0.02%mV/V
Excitation voltage	≤15VDC	≤15VDC	≤15VDC
Input impedance	760±10Ω	760±10Ω	760±10Ω
Output impedance	700±2Ω	700±2Ω	700±2Ω
Insulation impedance	≥5000MΩ	≥5000MΩ	≥5000MΩ
Safe overload ratio	150%F.S	150%F.S	150%F.S
Ultimate overload ratio	200%F.S	200%F.S	200%F.S
Total error	±0.5%F.S	±0.5%F.S	±0.5%F.S
Repeatability	±0.5%F.S	±0.5%F.S	±0.5%F.S
Null balance	±1%F.S	±1%F.S	±1%F.S
Product creep	±0.05%F.S/30min	±0.05%F.S/30min	±0.05%F.S/30min
TC SPAN	±0.02%F.S/10℃	±0.02%F.S/10℃	±0.02%F.S/10℃
Product material	Special aluminum alloy	Special aluminum alloy	Special aluminum alloy
Protection class	IP67/IP68	IP67/IP68	IP67/IP68

size(mm)



Model	RH-A-100	RH-A-200	RH-A-300
Length (A)	208 mm	208 mm	208 mm
Width (B)	157 mm	230 mm	306 mm
Height (C)	103 mm	133 mm	133 mm
Widest distance of wire rope (D)	114 mm	187 mm	264 mm

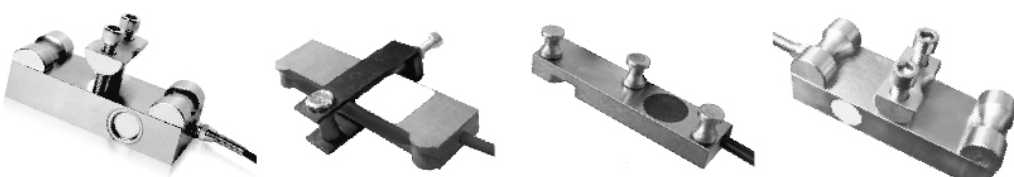
# Tension sensor

## RH-BC/HC/SM/EC

### Solution for measuring the tension of steel wire ropes

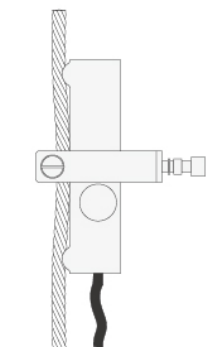
#### Structural Sharacteristics

- The elastic structure of the sensor is special, with good bending and torsion resistance, thereby improving the natural frequency and anti overturning, anti deviation, anti-interference and other characteristics of the sensor. The installation and connection of the sensor can use specialized connecting components, which is convenient and reliable for installation.



Model	RH-BC	RH-HC	RH-SM	RH-EC
Rated load	1000/2000/5000/20000kg	1000 / 5000kg	750 / 1000kg	3000 / 5000kg
Sensitivity	2.0 ± 0.02% mV/V	2.0±0.02%mV/V	2.0±0.02%mV/V	2.0±0.02%mV/V
Total error	±0.5% F.S	±0.5% F.S	±0.5% F.S	±0.5% F.S
Creep error	±0.02% F.S	±0.02% F.S	±0.02% F.S	±0.02% F.S
TC SPAN	±0.02% F.S / 10℃	±0.02% F.S / 10℃	±0.02% F.S / 10℃	±0.02% F.S / 10℃
Working temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Input impedance	380±20Ω	760±10Ω	760±10Ω	760±10Ω
Output impedance	352±3Ω	700±2Ω	700±2Ω	700±2Ω
Safe overload	150% F.S	150% F.S	150% F.S	150% F.S
Ultimate overload	200% F.S	200% F.S	200% F.S	200% F.S
Excitation	5-12VDC	5-12VDC	5-12VDC	5-12VDC
Max.excitation	15VDC	15VDC	15VDC	15VDC
Insulation impedance	≥5000MΩ	≥5000MΩ	≥5000MΩ	≥5000MΩ
Protection class	IP67 / IP68	IP67 / IP68	IP67 / IP68	IP67 / IP68
Construction	Alloy Steel	Alloy Steel	Alloy Steel	Alloy Steel
Cable length	1.8m	1.8m	1.8m	5m

size(mm)



Rated load (Kg)	1000	2000	5000	20000
Wire rope diameter	Φ6-12	Φ10-18	Φ16-26	Φ24-36
L	180	180	200	260
H	35	35	50	50
B	60	60	60	60

# Complies with EN8128 standard

## Elevator emergency calling system



## Focus on lift industry, for lift people

Nowadays it is rare to be able to speak to a lift engineer when you call your lift component supplier for assistance or technical support. At SUMMIT the only people you will speak to for technical support and consult service are trained lift engineers, they are ready at all time.

### R&D management system

SUMMIT in-house design and development of hardware and software is a large part of the company's success. By keeping both the design and development of all hardware and software in the company's control, allows SUMMIT to provide the best products and solutions for our customers.

### Strict quality control

We focus on our proprietary lift emergency telephone system, floor information display and corresponding spare parts. Because we control the entire production line, from development, testing and design to manufacturing, we are able to deliver products of high quality, in order to fulfil commitment to our customer.

### The most leading technology

When the latest design and manufacturing techniques available in the market, we are able to produce state-of-the-art products that are fully featured and fulfil customer's requirements at the most.



For specific product information, please refer to the complete product catalog, Or log in to our website.  
[www.summit3e.com](http://www.summit3e.com)



# Elevator emergency calling system

## MX2

■ MX2 is probably the world' s smallest EN81-28 and EN81-70 compatible emergency telephone. Despite its size it is both intelligent and powerful; perfectly suitable for most types of installations.

The unit has got two LED' s (yellow/green) for indicating status of the emergency call. This, in addition to the front plate pictogram engravings, makes the unit fully compatible with EN81-70.



Product Function	<div>■ EN81-28 and EN81-70 compatible</div> <div>■ Up to four telephone numbers using P100, CPC, Q23 or voice identification</div> <div>■ Connect external emergency button (NO/NC)</div> <div>■ Adjustable delay for connecting emergency call</div> <div>■ Voice identification messages to the call center and distress message to car recorded directly on site or with pre-recorded audio file.</div> <div>■ Automatic test alarm on a configurable interval (max 3 days in accordance with EN81-28)</div> <div>■ Filter/LMS input</div>
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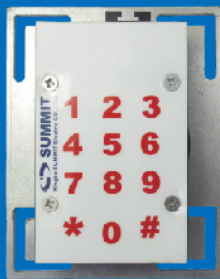
Model	MX2-SM	MX2-SM-Pic	MX2-SM-PicB
Citation	EN81-28/EN81-70	EN81-28/EN81-70	EN81-28/EN81-70
Operating voltage	10~30VDC	10~30VDC	10~30VDC
Max.operating current	50mA	50mA	50mA
Installation	Surface mounted	Surface mounted	Surface mounted
Alarm switch	NO or NC	NO or NC	NO or NC
Communication mode	PSTN	PSTN	PSTN
GSM-option	GL1	GL1	GL1
Alarm indicator	LED indicator	LED indicator	LED indicator
Telephone number	4 groups	4 groups	4 groups
keyboard	In-built	In-built	In-built
Programming interface	RS232	RS232	RS232
Voice message	Pre-recorded	Pre-recorded	Pre-recorded
anti-false alarm	NC/NO	NC/NO	NC/NO
Self-test interval	1~3days	1~3days	1~3days
Cable length	5M(standard)	5M(standard)	5M(standard)
Data keeping	20 years	20 years	20 years
Serial connection	Max.6 units	Max.6 units	Max.6 units
Parallel connection	Max.9 units	Max.9 units	Max.9 units
Working temperature	-20~+60℃	-20~+60℃	-20~+60℃
Size	130 × 78 × 20mm	130 × 78 × 20mm	155 × 90 × 33mm

# Elevator emergency calling system

## MX2

■ MX2 is probably the world' s smallest EN81-28 and EN81-70 compatible emergency telephone. Despite its size it is both intelligent and powerful; perfectly suitable for most types of installations.

The unit has got two LED' s (yellow/green) for indicating status of the emergency call. This, in addition to the front plate pictogram engravings, makes the unit fully compatible with EN81-70.



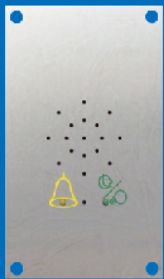
Product Function	<div>■ EN81-28 and EN81-70 compatible</div> <div>■ Up to four telephone numbers using P100, CPC, Q23 or voice identification</div> <div>■ Connect external emergency button (NO/NC)</div> <div>■ Adjustable delay for connecting emergency call</div> <div>■ Voice identification messages to the call center and distress message to car recorded directly on site or with pre-recorded audio file.</div> <div>■ Automatic test alarm on a configurable interval (max 3 days in accordance with EN81-28)</div> <div>■ Filter/LMS input</div>
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Model	MX2-Rec	MX2-Rec-Pic	MX2-Rec-PicB	MX2-COP
Citation	EN81-28/EN81-70	EN81-28/EN81-70	EN81-28/EN81-70	EN81-28/EN81-70
Operating voltage	10~30VDC	10~30VDC	10~30VDC	10~30VDC
Max.operating current	50mA	50mA	50mA	50mA
Installation	Flush mounted	Flush mounted	Flush mounted	Mounted behind COP
Alarm switch	NO or NC	NO or NC	NO or NC	NO or NC
Communication mode	PSTN	PSTN	PSTN	PSTN
GSM-option	GL1	GL1	GL1	GL1
Alarm indicator	LED indicator	LED indicator	LED indicator	LED indicator
Telephone number	4 groups	4 groups	4 groups	4 groups
keyboard	In-built	In-built	In-built	In-built
Programming interface	RS232	RS232	RS232	RS232
Voice message	Pre-recorded	Pre-recorded	Pre-recorded	Pre-recorded
anti-false alarm	NC/NO	NC/NO	NC/NO	NC/NO
Self-test interval	1~3days	1~3days	1~3days	1~3days
Cable length	5M(standard)	5M(standard)	5M(standard)	5M(standard)
Data keeping	20 years	20 years	20 years	20 years
Serial connection	Max.6 units	Max.6 units	Max.6 units	Max.6 units
Parallel connection	Max.9 units	Max.9 units	Max.9 units	Max.9 units
Working temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Size	155 × 90 × 17mm	155 × 90 × 17mm	155 × 90 × 28mm	100 × 80 × 18mm

# Elevator emergency calling system

## TL1

■ TL1 includes all benefits of the MX2 series. The compact and adaptive design has been completed with further flexibility through connections for an external emergency button and external pictograms. This also enables connection of a voice station for car top and lift pit, fulfilling all requirements for an emergency phone in accordance with EN81-28.



### Product Function

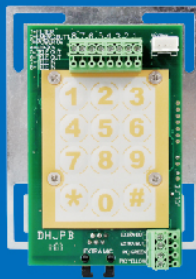
- Identification messages can be recorded on site
- Up to nine units can share the same phone line
- GSM as an option through the GL series
- Test alarms on configurable intervals
- Possibility to connect extra voice stations through RJ12
- Extra outputs for pictograms
- Extra input for emergency button
- Volume adjustment through the keyboard

Model	TL1-SM	TL1-SM-Pic	TL1-SM-PicB
Citation	EN81-28/EN81-70	EN81-28/EN81-70	EN81-28/EN81-70
Operating voltage	10~30VDC	10~30VDC	10~30VDC
Max.operating current	50mA	50mA	50mA
Installation	Surface mounted	Surface mounted	Surface mounted
Alarm switch	NO or NC	NO or NC	NO or NC
Communication mode	PSTN	PSTN	PSTN
GSM-option	GL1	GL1	GL1
Alarm indicator	LED indicator	LED indicator	LED indicator
Telephone number	4 groups	4 groups	4 groups
Keyboard	In-built	In-built	In-built
Programming interface	RS232	RS232	RS232
Voice message	Pre-recorded	Pre-recorded	Pre-recorded
Anti-false alarm	NC/NO	NC/NO	NC/NO
Self-test interval	1~3days	1~3days	1~3days
Extension	1unit(car top or under cabin)	1unit(car top or under cabin)	1unit(car top or under cabin)
External button indicator	1piece (button and indicator)	1piece (button and indicator)	1piece (button and indicator)
Serial connection	Max.6 units	Max.6 units	Max.6 units
Parallel connection	Max.9 units	Max.9 units	Max.9 units
Working temperature	-20~+60℃	-20~+60℃	-20~+60℃
Size	155 × 90 × 29mm	155 × 90 × 29mm	155 × 90 × 42mm

# Elevator emergency calling system

## TL1

■ TL1 includes all benefits of the MX2 series. The compact and adaptive design has been completed with further flexibility through connections for an external emergency button and external pictograms. This also enables connection of a voice station for car top and lift pit, fulfilling all requirements for an emergency phone in accordance with EN81-28.



### Product Function

- Identification messages can be recorded on site
- Up to nine units can share the same phone line
- GSM as an option through the GL series
- Test alarms on configurable intervals
- Possibility to connect extra voice stations through RJ12
- Extra outputs for pictograms
- Extra input for emergency button
- Volume adjustment through the keyboard

Model	TL1-Rec	TL1-Rec-Pic	TL1-Rec-PicB	TL1-COP
Citation	EN81-28/EN81-70	EN81-28/EN81-70	EN81-28/EN81-70	EN81-28/EN81-70
Operating voltage	10~30VDC	10~30VDC	10~30VDC	10~30VDC
Max.operating current	50mA	50mA	50mA	50mA
Installation	Flush mounted	Flush mounted	Flush mounted	Mounted behind COP
Alarm switch	NO or NC	NO or NC	NO or NC	NO or NC
Communication mode	PSTN	PSTN	PSTN	PSTN
GSM-option	GL1	GL1	GL1	GL1
Alarm indicator	LED indicator	LED indicator	LED indicator	LED indicator
Telephone number	4 groups	4 groups	4 groups	4 groups
Keyboard	In-built	In-built	In-built	In-built
Programming interface	RS232	RS232	RS232	RS232
Voice message	Pre-recorded	Pre-recorded	Pre-recorded	Pre-recorded
Anti-false alarm	NC/NO	NC/NO	NC/NO	NC/NO
Self-test interval	1~3days	1~3days	1~3days	1~3days
Extension	1unit(car top or under cabin)	1unit(car top or under cabin)	1unit(car top or under cabin)	1unit(car top or under cabin)
External button indicator	1piece ( button and indicator)	1piece ( button and indicator)	1piece ( button and indicator)	1piece ( button and indicator)
Serial connection	Max.6 units	Max.6 units	Max.6 units	Max.6 units
Parallel connection	Max.9 units	Max.9 units	Max.9 units	Max.9 units
Working temperature	-20~+60℃	-20~+60℃	-20~+60℃	-20~+60℃
Size	155 × 90 × 27mm	155 × 90 × 27mm	185 × 90 × 31mm	100 × 80 × 18mm



# Elevator emergency calling system

## TL2

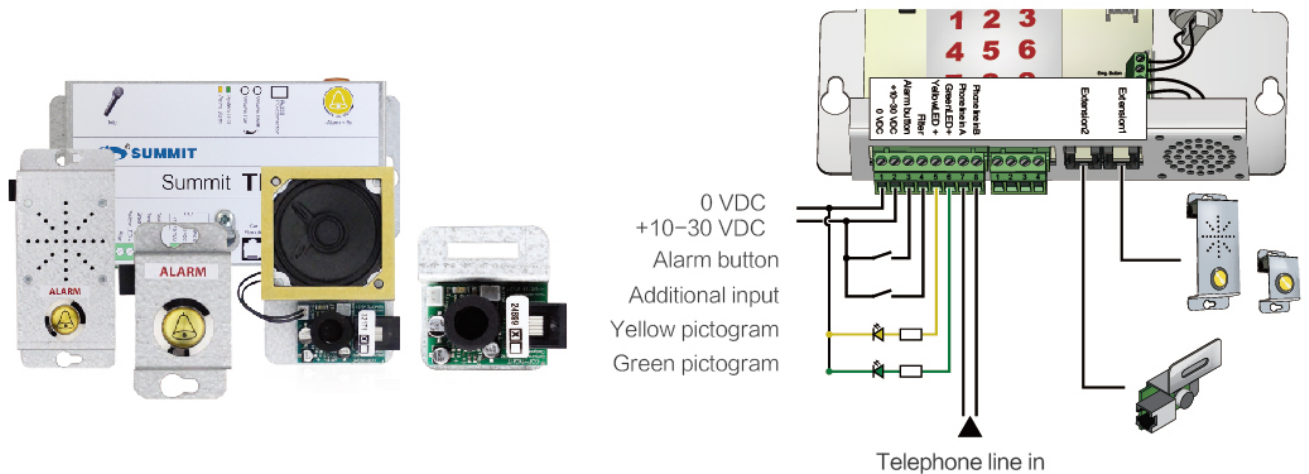
- Emergency telephone designed for mounting on the car roof, with built-in: engineer alarm button, speaker and microphone. Connections for lift car station, additional station and hearing loop. TL2 complies to the EN81-28 and the EN81-70 standards, and offers flexibility through the choice of peripherals. The unit has a button to reset active alarms and to send maintenance tickets, integrated battery supervision and automatic microphone and speaker self-test.



Product Function	<ul style="list-style-type: none"><li>Compact car top unit</li><li>Open alarm protocols (P100/CPC/caller ID/voice ID) 3 day test alarms free of cost with Caller ID</li><li>On site or remote recording of calming and alarm ID messages</li><li>Up to 9 SL2 can share the same telephone line</li><li>GSM as option (GL1/GL2/GL4/GL6).</li></ul>	<ul style="list-style-type: none"><li>Plugged screw terminals for flexible installation</li><li>Inputs (can be used for e.g. external alarm button, two additional voice stations or alarm buttons).</li><li>Outputs (e.g. drivers for green and yellow LED</li><li>Pictograms, connection to inductive hearing loop).</li></ul>

Model	TL2		
Citation	EN81-28/EN81-70	Anti-false alarm	NC/NO
Operating voltage	10~30VDC	Self-test interval	1~3days
Max.working current	50mA	Extension	2unit(car top or under cabin)
Installation	Surface mounted	External button indicator	1piece ( button and indicator)
Alarm switch	NO or NC	Parallel connection	Max.9 units
Communication mode	PSTN	Working temperature	-20~+60℃
GSM-option	GL1	Size	90×171×42mm
Alarm indicator	LED indicator		
Telephone number	4 groups		
Keyboard	In-built		
Programming interface	RS232		
Voice message	Pre-recorded		

Extension(installed in car top or under the cabin)



# Elevator emergency calling system

## GL1

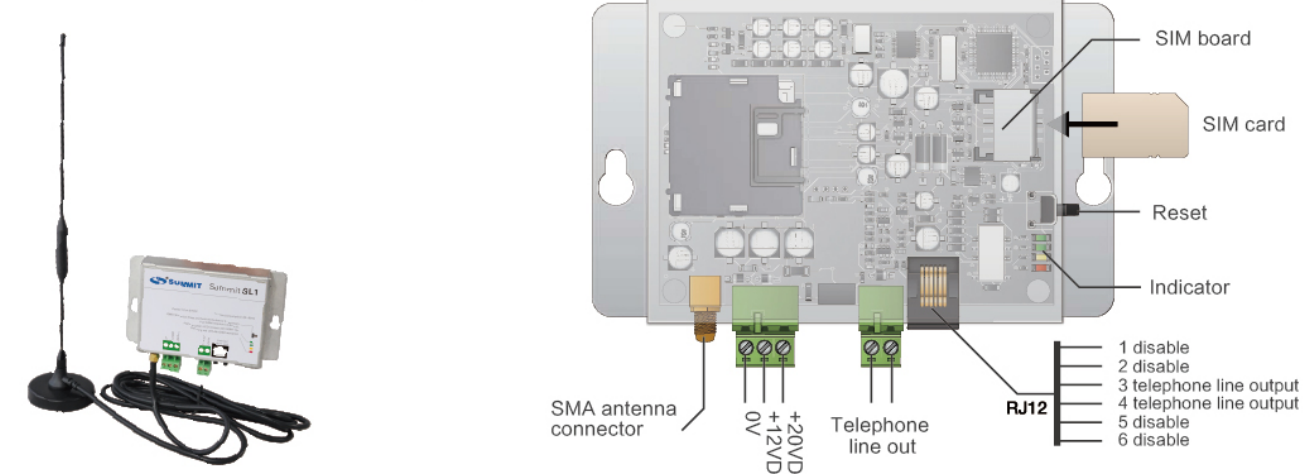
- GSM option for all lift emergency telephones. The unit replaces a standard PSTN landline and can be installed in the machine room, lift shaft or on the car roof. GL1 is suitable for permanent as well as temporary installation. Up to nine telephones can be connected to one unit. GL1 is delivered in a robust metal housing with key holes for screw mounting. Two self-drilling screws are also included for easy mounting.



Product Function	<ul style="list-style-type: none"><li>GSM to analogue PSTN telephone line</li><li>12VDC or 20~30VDC supply voltage</li><li>Robust metal housing for screw mounting</li><li>Connect any analogue telephone</li><li>3 dB GSM antenna for GSM 900/1800 with magnetic foot is included</li><li>Works with all service providers</li></ul>

Model	GL1
Citation	EN81-28/EN81-70
Operating voltage	12VDC or 10~30VDC
Operating current	30~80mA
Communication card	standard SIM card
Quad band	900/1800MHz
Antenna interface	SMA
Signal sensitivity	3dB
Output signal	PSTN
Output interface	RJ12
Indicator number	4
Working temperature	-20~+60℃
Size	94×139×20mm

Extension(installed in car top or under the cabin)



# Elevator emergency calling system

## TL6

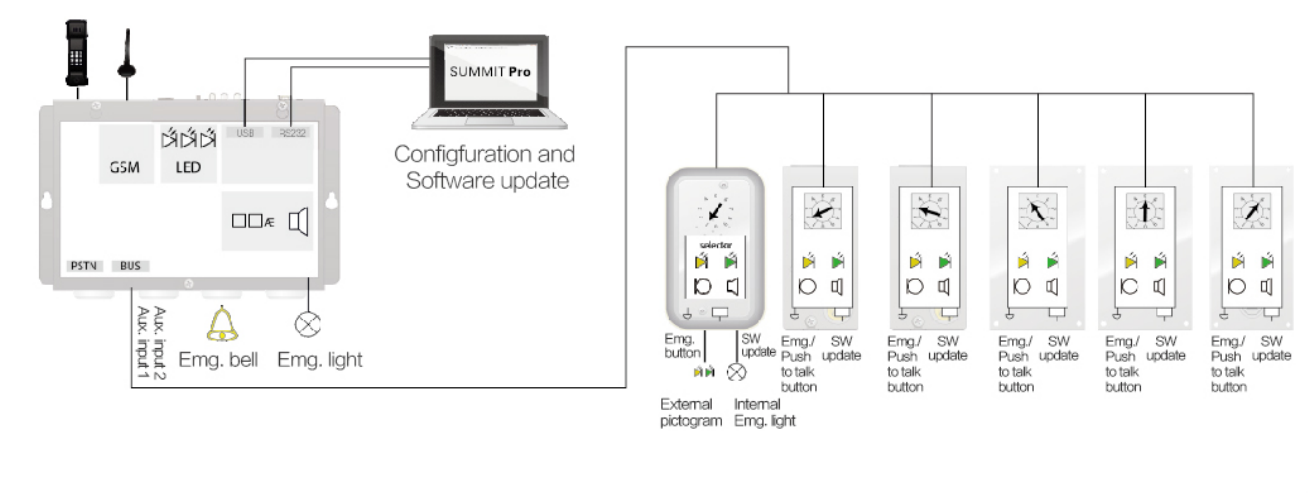
- Only 2 wires plus supply voltage is needed for each voice station. No additional interface board is required for connecting up to 6 voice stations in car, on car roof, in car pit, machine room or on the floors.
- The integrated battery backup system ensures continued operation despite a power outage. A condition test is performed on a regular basis and the unit will send an alarm if the battery needs to be replaced.



Product Function	■ USB connection for programming	■ Output for emergency light 12V (100mA)
	■ Serial RS232 connection for programming	■ Output for emergency siren 12V (200mA)
Model	■ RJ12 connection for analogue phone	
	■ 2 optically isolated inputs: 10~30V, 5 mA (NO/NC)	
	■ 2 relay outputs: 2A 30V DC / 0,5A 125V AC	
Model	TL6	

Citation	EN81-28/EN81-70	Voice message	Pre-recorded
System power supply	220VAC,Max.power 9.4W	Anti-false alarm	NC/NO
Output voltage	12VDC	Self-test interval	1~3days
In-built power	12VDC	Extension	Max.6 units
Communication type	CAN open BUS	External buzzer	1 piece
Installation	Flush mounted	External indicator	1 piece
Communication mode	PSTN	Additional output	2 groups NC/NC relay output
GSM communication	Optional	Working temperature	-20~+60℃
Alarm indicator	LED indicator	Size	241 × 160 × 49mm
Telephone number	4 groups		
Programming interface	RS232		

Extension can be installed inside car, car top or under the cabin



# Elevator emergency calling system

## IC2

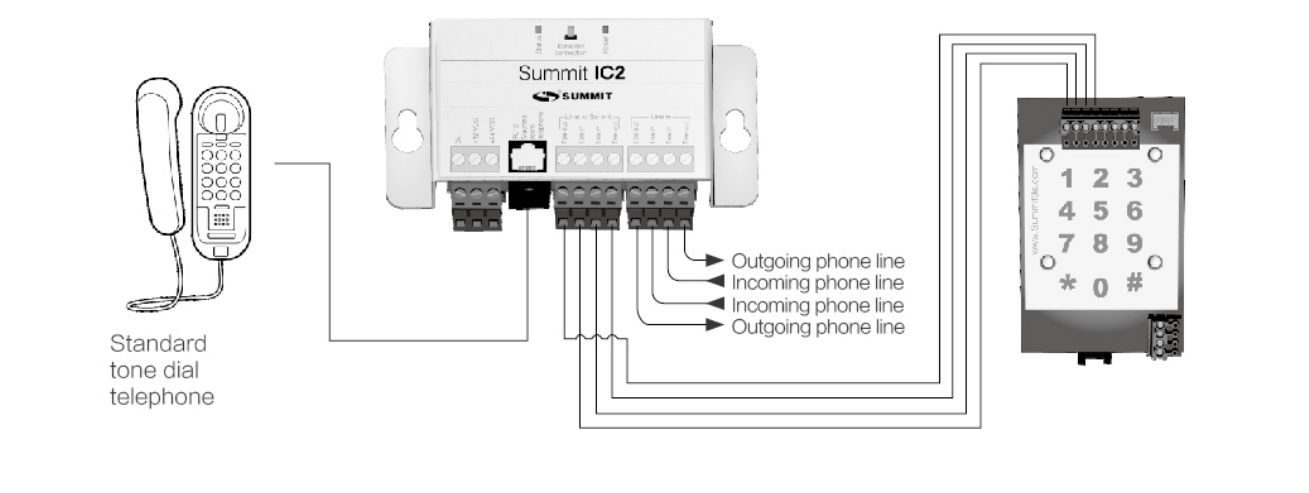
- IC2 is a simple and cheap way to get intercom between machine room and the lift car. Typical use is to comply with EN81 in hydraulic lifts where there is no acoustical connection between the lift shaft and the machine room. Also suitable for lifts with shaft heights exceeding 30 meters or in cases where an intercom is requested.



Product Function	■ Connect existing emergency telephones
	■ Supply voltage 12VDC or 24VDC
	■ Call any SafeLine unit connected to the same telephonenumber
	■ Use any standard analogue handset with DTMF formachine room
	■ Call is automatically disconnected after 5 minutes
Model	IC2

Citation	EN81-28/EN81-70
Operating voltage	12VDC or 24VDC
Operating current	Max.50mA
Communication mode	PSTN
GSM communication	GL1
Extension	1 unit(MX2,TL1,TL6)
External DTNF telephone	1
Talk time	5 minutes(terminated automatically)
Multiple connection mode	Parallel connection
Working temperature	-20~+60℃
Size	61 × 115 × 23mm

Extension(installed on car top or under the cabin)





# Elevator emergency calling system

## Accessories

### TL1/TL2 Accessories



Specifications	Integrated construction, including microphone and emergency button(NO). Quick installation by using the included flat cable (5m)with RJ12 connector.	Integrated construction, including speaker, microphone and emergency button(NO). Quick installation by using the included flat cable (5m)with RJ12 connector.
Features:	<ul style="list-style-type: none"><li>Microphone with button</li></ul>	<ul style="list-style-type: none"><li>Speaker,microphone and emergency button(NO)</li></ul>
Ident-NO.	901-101-003	901-101-004
Function	Emergency call device	Emergency call device
Installation	Car top or under the cabin	Car top or under the cabin
Supporting model	<ul style="list-style-type: none"><li>TL1</li><li>TL2</li></ul>	<ul style="list-style-type: none"><li>TL1</li><li>TL2</li></ul>



Specifications	The unit is only a microphone and can be mounted using ascrew. Quick installation by using the included flat cable (5m)with RJ12 connector.	Integrated speaker and microphone. Quick installation byusing the included flat cable(5m) with RJ12 connector
Features:	<ul style="list-style-type: none"><li>With microphone</li></ul>	<ul style="list-style-type: none"><li>Microphone and speaker</li></ul>
Ident-NO.	901-101-005	901-101-006
Function	Emergency call device	Emergency call device
Installation	Behind COP	Behind COP
Supporting model	<ul style="list-style-type: none"><li>TL1</li><li>TL2</li></ul>	<ul style="list-style-type: none"><li>TL1</li><li>TL2</li></ul>

# Elevator emergency calling system

## Accessories

### TL6 Accessories



Specifications	<ul style="list-style-type: none"><li>TL6-Rec is a voice station for TL6 without pictograms forflush mounted installation. LED's for external pictogramsand emergency button can easily be connected using theincluded RJ45 cable.</li><li>TL6-Rec can be used as a voice station in the car only</li></ul>	<ul style="list-style-type: none"><li>TL6-Rec-LED is a voice station for TL6 with emergencyLED for flush mounted installation. LED's for external pictograms and emergency button caneasily be connected using the included RJ45 cable.</li><li>TL6-Rec can be used as a voice station in the car only</li></ul>
Features:	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Flush mounted installation</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Flush mounted installation</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Integrated LED for emergency light</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>
Ident-NO.	901-101-007	901-101-008
Function	Emergency call device	Emergency call device
Installation	Flush mounted	Flush mounted
Supporting model	<ul style="list-style-type: none"><li>TL6</li></ul>	<ul style="list-style-type: none"><li>TL6</li></ul>



Specifications	<ul style="list-style-type: none"><li>TL6-Rec-Pic is a TL6 voice station with pictograms forflush mounted installation.</li><li>TL6-Rec-Pic can be used as a voice station in the caronly</li></ul>	<ul style="list-style-type: none"><li>TL6-Res-PicB is a TL6 voice station with pictogramsand emergency button for flush mounted installation.</li><li>TL6-Rec-PicB can be used as a voice station in the caronly</li></ul>
Features:	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Flush mounted installation</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Integrated pictograms</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Flush mounted installation</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Integrated pictograms and emergency button</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>
Ident-NO.	901-101-009	901-101-010
Function	Emergency call device	Emergency call device
Installation	Flush mounted	Flush mounted
Supporting model	<ul style="list-style-type: none"><li>TL6</li></ul>	<ul style="list-style-type: none"><li>TL6</li></ul>

# Elevator emergency calling system

## Accessories



Specifications	<ul style="list-style-type: none"><li>TL6-SM is a TL6 voice station without pictograms for surfacemounted installation.</li><li>TL6-SM can be used as a voice station in the car only</li></ul>	<ul style="list-style-type: none"><li>TL6-SM-LED is a TL6 voice station with emergency LED for surfacemounted installation. LED's for external pictograms and emergencybutton can easily be connect- ed using the included RJ45 cable.</li><li>TL6-SM-LED can be used as a voice station in the car only</li></ul>
Features	<ul style="list-style-type: none"><li>CAN bus system-only4 wires to the main unit</li><li>Flush mounted installation</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Surface mounted installation</li><li>Integrated LED for emergency light</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>
Ident-NO.	901-101-011	901-101-012
Function	Emergency call device	Emergency call device
Installation	Surface mounted	Surface mounted
Supporting model	■ TL6	■ TL6



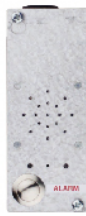
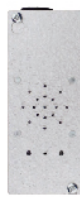
Specifications	<ul style="list-style-type: none"><li>TL6-SM-Pic is a TL6 voice station with pictograms forsurface mounted installation.</li><li>TL6-SM-Pic can be used as a voice station in the caronly</li></ul>	<ul style="list-style-type: none"><li>TL6-SM-Pic is a TL6 voice station with pictograms andemergency button for surface mounted installation. TL6-SM-Pic can be used as a voice station in the car only</li></ul>
Features:	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Surface mounted installation</li><li>Integrated pictograms</li><li>Possible to connect external pictograms andemergency button through RJ45</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Surface mounted installation</li><li>Integrated pictograms and emergency button</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>
Ident-NO.	901-101-013	901-101-014
Function	Emergency call device	Emergency call device
Installation	Surface mounted	Surface mounted
Supporting model	■ TL6	■ TL6

# Elevator emergency calling system

## Accessories



Specifications	<ul style="list-style-type: none"><li>TL6-COP is a TL6 voice station for installation on boltsbehind the car operating panel</li><li>TL6-COP can be used as a voice station in the car only</li></ul>	<ul style="list-style-type: none"><li>TL6-COP2 is a TL6 voice station for installation within- cluded adhesive tape, behind the car operating panel</li><li>TL6-COP2 can be used as a voice station in the car only</li></ul>
Features:	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Installed on bolts or with the attached adhesivetape</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Installed with the attached adhesive tape</li><li>Possible to connect external pictograms and emergency button through RJ45</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>
Ident-NO.	901-101-015	901-101-016
Function	Emergency call device	Emergency call device
Installation	Behind COP	Behind COP
Supporting model	■ TL6	■ TL6



Specifications	<ul style="list-style-type: none"><li>TL6-RD is a voice station for TL6, with microphone andspeaker, installed on the car top or lift pit.</li></ul>	<ul style="list-style-type: none"><li>TL6-RD-B is a voice station for TL6, with microphone,- speaker and emergency button, installed on the car topor lift pit.</li></ul>
Features:	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Communication with car top o lift pit</li><li>with speaker and microphone</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>	<ul style="list-style-type: none"><li>CAN bus system-only 4 wires to the main unit</li><li>Communication with car top or lift pit</li><li>With speaker, microphone and button</li><li>Adjustable speaker volume</li><li>Microphone and speaker self-test on daily basis</li></ul>
Ident-NO.	901-101-017	901-101-018
Function	Emergency call device	Emergency call device
Installation	Car top or lift pit	Car top or lift pit
Supporting model	■ TL6	■ TL6



# Elevator emergency calling system

## Accessories

### TL1/TL6 Accessories



Specifications	<ul style="list-style-type: none"><li>With TL6-GSM board, an existing TL6 installation is completed for connection towards GSM net. The interface board is easily mounted on an existing pin header on the TL6 main board and fixed with 2 screws. TL6-GSM board enables use of both PSTN and GSM simultaneously in the TL6 unit. The circuit board is delivered with 3dB antenna and mounting details.</li></ul>	<ul style="list-style-type: none"><li>TL6 main board with alarm indicating output terminal, can connect to buzzer. While pushing Emg. button it will send out indicating voice.</li></ul>
Features:	<ul style="list-style-type: none"><li>GSM module</li></ul>	<ul style="list-style-type: none"><li>DC12V buzzer</li></ul>
Ident-NO.	901-101-019	901-101-020
Function	SIM card wireless communication	Alarm indicator
Installation	TL6 main unit	TL6 main unit
Supporting model	<ul style="list-style-type: none"><li>TL6</li></ul>	<ul style="list-style-type: none"><li>TL6</li></ul>



Specifications	<ul style="list-style-type: none"><li>GSM900/1800 3dB antenna, to minimize signal loss. SMA connector for connecting to SUMMIT GSM products.</li></ul>	<ul style="list-style-type: none"><li>GSM900/1800 3dB antenna, to minimize signal loss. SMA connector for connecting to SUMMIT GSM products.</li></ul>
Features:	<ul style="list-style-type: none"><li>GSM900/1800 3dB antenna</li><li>50 <math>\Omega</math> impedance</li><li>SMA pin</li></ul>	<ul style="list-style-type: none"><li>GSM900/1800 3dB antenna</li><li>50 <math>\Omega</math> impedance</li><li>SMA pin</li></ul>
Ident-NO.	701-901-241	701-901-242
Function	GSM communication	GSM communication
Installation	TL6 or GL1 outside	TL6 or GL1 outside
Supporting model	<ul style="list-style-type: none"><li>TL6</li><li>GL1</li></ul>	<ul style="list-style-type: none"><li>TL6</li><li>GL1</li></ul>

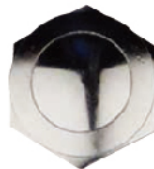
# Elevator emergency calling system

## Accessories

### TL1/TL2/TL6/GL1/IC2 Accessories



Specifications	<ul style="list-style-type: none"><li>GSM900/1800 3dB antenna, with Rg58 cable to minimize signal loss. SMA connector for connecting to SUMMIT GSM products.</li><li>By using the magnetic foot, the antenna is placed in upright position on a metal surface for best possible reception. The bigger surface, the better.</li></ul>	<ul style="list-style-type: none"><li>GSM900/1800 3dB antenna, with Rg58 cable to minimize signal loss. SMA connector for connecting to SUMMIT GSM products.</li><li>By using the magnetic foot, the antenna is placed in upright position on a metal surface for best possible reception. The bigger surface, the better.</li></ul>
Features:	<ul style="list-style-type: none"><li>GSM900/1800 3dB antenna</li><li>Magnetic foot</li><li>3 meter RG58 cable</li><li>50 <math>\Omega</math> impedance</li><li>SMA pin</li></ul>	<ul style="list-style-type: none"><li>GSM900/1800 3dB antenna</li><li>Magnetic foot</li><li>3 meter RG58 cable</li><li>50 <math>\Omega</math> impedance</li><li>SMA pin</li></ul>
Ident-NO.	701-901-243	701-901-244
Function	GSM communication	GSM communication
Installation	TL6 or GL1 outside	TL6 or GL1 outside
Supporting model	<ul style="list-style-type: none"><li>TL6</li><li>GL1</li></ul>	<ul style="list-style-type: none"><li>TL6</li><li>GL1</li></ul>



Specifications	<ul style="list-style-type: none"><li>Extension cable for GSM antenna with SMA connector, used for placing the antenna further away from the unit in case of insufficient GSM reception. It is not recommended to extend the cable more than 10 meters.</li></ul>	<ul style="list-style-type: none"><li>Emergency button for installation directly in the TL6 housing. Can be connected in parallel to the emergency button in the car.</li></ul>
Features:	<ul style="list-style-type: none"><li>Extend antenna cable when GSM reception is insufficient</li><li>5 meter cable</li><li>SMA male to SMA female</li><li>Cable length is optional (it is not recommended to extend more than 10 meters)</li></ul>	<ul style="list-style-type: none"><li>Small and simple</li><li>Initiate emergency call from car roof and lift pit</li></ul>
Ident-NO.	701-901-245	701-901-246
Function	GSM communication	Alarm indicator
Installation	Connect TL6 or GL1 antenna	External button
Supporting model	<ul style="list-style-type: none"><li>TL6</li><li>GL1</li></ul>	<ul style="list-style-type: none"><li>MX2</li><li>TL1</li><li>TL2</li><li>TL6</li></ul>

# Elevator emergency calling system

## Accessories

### Emergency calling system accessories



Specifications	<ul style="list-style-type: none"><li>The handset can be connected to TL6 in the machine room to establish communication with the installed carstation as well as the extra stations on the car roof and lift pit. Can be connected to any SUMMIT emergency telephonesto configure them or for on-site recording of an identification message to the call center operator.</li></ul>	<ul style="list-style-type: none"><li>Valve regulated lead-acid battery, which is used in most of SUMMIT products including battery backup. The battery produces 12V/0.8Ah which is sufficient to supply telephone and emergency lights in case of a power outage. Maximum discharge current 12A.</li><li>The battery is leak proof and neither can, nor should, be refilled. Please note that the battery should never be fully discharged, or the capacity will be significantly reduced.</li></ul>
Features:	<ul style="list-style-type: none"><li>Analogue DTMF handset</li><li>Configure any SUMMIT telephone</li><li>On-site recording of identification message for call centre</li></ul>	<ul style="list-style-type: none"><li>Lead battery 12V/0.8Ah</li><li>Small, yet powerful</li><li>Lifespan: 2-3 years under normal conditions</li></ul>
Ident-NO.	901-101-020	701-901-247
Function	Configuration and voice communication	Emergency power supply
Installation	Portable or fixed in machine room	Inside main unit
Supporting model	■ TL6 ■ IC2	■ TL6



Specifications	<ul style="list-style-type: none"><li>2 meter programming cable for serial Rs232 connection. Connect the cable to a computer to configure SUMMIT Telephone, through our software SUMMIT Pro.</li></ul>	<ul style="list-style-type: none"><li>Small and convenient USB to serial RS232 converter. - Tested and approved for compatibility with SUMMIT telephone and programming cables.</li></ul>
Features:	<ul style="list-style-type: none"><li>Enables easy configuration of SUMMIT telephones using SUMMIT Pro</li><li>Rs232 connector</li><li>Cable length 2 meters</li><li>Possibility to use USB converter</li></ul>	<ul style="list-style-type: none"><li>Serial converter for USB 1.1 interface</li><li>Compatible with Microsoft windows 2000/XP/Vista/7</li><li>Drivers are included</li><li>25cm cable is included</li></ul>
Ident-NO.	701-901-248	701-901-249
Function	Programming and configuration	USB to RS232 converter
Installation	Connect telephone and PC	Connect USB terminal and data cable
Supporting model	■ MX2 ■ TL1 ■ TL2 ■ TL6 ■ IC2	■ MX2 ■ TL1 ■ TL2 ■ TL6 ■ IC2

# Elevator emergency calling system

## Accessories

### Emergency calling system accessories



Specifications	<ul style="list-style-type: none"><li>CAT5 flat cable with RJ45 connector for connecting SUMMIT emergency telephones and voice stations. Especially suitable where the mounting space is limited.</li></ul>	<ul style="list-style-type: none"><li>CAT5 round cable with RJ45 connector for connecting SUMMIT emergency telephones and voice stations. Only one end is fitted with an RJ45 connector in order to speed up the installation process.</li></ul>
Features:	<ul style="list-style-type: none"><li>CAT5 flat cable for RJ45 connection</li><li>Unshielded</li><li>One end fitted with small connector</li></ul>	<ul style="list-style-type: none"><li>CAT5 round cable for RJ45 connection</li><li>Unshielded</li></ul>
Ident-NO.	701-901-250	701-901-244
Function	Signal connection	Signal connection
Installation	In the car	In the car, under the cabin, or car top
Supporting model	■ MX2 ■ TL1 ■ TL2 ■ TL6	■ MX2 ■ TL1 ■ TL2 ■ TL6