

Klemko 868 radiographic controls.

Following the introduction of radiographic controls designers are offered every freedom, comfort and convenience in the design safe electrical installations. The transmitters and receivers communicate with each other via wireless channels and carry out their commands with precision, thereby offering a simple means of implementing a wide range of solutions that require little installation work. As a result, these projects are particularly popular in renovation and expansion projects. In addition, they are ideally suited to use in the construction of new homes, care centres and offices.

The many new functions incorporated in Klemko 868 products have virtually eliminated restrictions on their uses. The wall transmitters are mounted in a 50x50mm frame, although they can also be finished with many other brands of frame. Existing installations, such as light-sensitive switches and movement detectors, can readily be converted to radiographic controls using a universal transmitter (flat model, with a depth of 9mm). These transmitters respond to changes in the status of the contacts and transmit the change to receivers that switch to the changed status or carry out specific commands. The transmitters send a switch-on or switch-off command depending in the change in status. Since the transmitters can also be triggered using potential-free contacts they can also collaborate with other systems. The transmitters can also be operated manually or triggered with a PIR signal. The receivers offer configurable time settings or a dimmable output that further increase the intelligence. The program supports time-independent response to the radio signals. The radiographic manager can send repetitive signals to relieve the burden on the receiver. Klemko 868 radiographic controls can be used to create every type of circuit.

Frequency of 868 MHz.



Klemko 868 radiographic products transmit and receive 868 MHz signals. These signals are encrypted by an IC in the factory and assigned a command protocol with a unique ID code. The chip stores millions of options, thereby precluding the risk of interference or cross-signals. The signals are of an extremely short duration to avoid the transmission of a continuous signal in the ether. The transmitters send the signals to the receivers. The receivers, depending on their settings and the version, then carry out a switching action or set a level. Solely the transmitter logged into the receiver results in a response. A number of transmitters can be logged into a receiver so that the receiver can be reached from several locations (max. 20), such as lighting operated by two-way switches that can be switched on or off from two locations. A transmitter can control a number of receivers so that actions at several locations can be controlled from one point. Another example of the use of radiographic controls is a building which has a separate switch for the lighting in each room. A master switch can be mounted by the outside door which is logged into all these switches and can transmit a signal to switch off the lighting in every room. A transmitter logged into a receiver is stored in the receiver's memory even when the power supply is disconnected. Only once a 21st transmitter is logged into the receiver will the first transmitter logged into the receiver (ID code) be deleted from the memory. A transmitter can be deleted from the memory using the "log off transmitter" procedure.

Some examples of applications.




- * Electronic locks can be opened on the transmission of an immediately following signal. The receiver remains active while the signal is transmitted. When the transmission of the signal ends the relay falls off immediately.
 - * Alarm generator A panic button sets the receivers to which the transmitter is logged in to flasher mode so that the lighting or sirens connected to the receivers generate an alarm.
 - * Pre-programming of scenarios. Receivers to which the transmitter is logged in can switch the lighting in accordance with 3 scenarios (status and level).
 - * Automation: the manager can be used to set the switching times at week level in combination with light-sensitive switches or movement detectors.
- Combination of products that control a receiver, whereby the last signal received is valid.







Radiographic transmitters


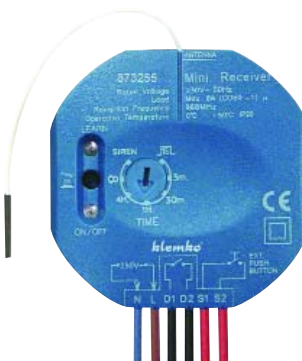
Art. No.	Klemko number	Specifications
	873000 868-PIR180-IP44 868MHz movement detector for outdoor use, detection angle 180°. The time and sensitivity are adjustable. The movement detector is equipped with a 230V relay. The maximum switching capacity is 5A. The transmission range is 100 metres in open space.	230VAC Power supply : 230VAC 50/60Hz Load : 5A cos phi=1 Ohmic load : 1,000W Halogen lamp HV : 500W Halogen lamp LV : 200VA Signal : learning code 868 Transmitter range : 100m in open space Detection angle : 180° Detection field : 12m forwards, 6 m sideways Installation height : 2m Time settings : Test, pulse 1 sec - 10 min. Lux setting. : 5-10,000 lux Protection : IP44 Temperature : -25°C to +50°C Colour : RAL 9010 Dimensions, LxWxH : 130x70x106mm Standards : CE
	873010 868-PIR-BAT-IP20 868MHz movement detector for indoor use, detection angle 180°. The time and sensitivity are adjustable. The detector can be fixed to a wall, installed in a flush-mounted junction box or simply be placed in a room. Can be finished with a standard 50x50mm frame (not included). Powered by 2 AAA batteries (not included). The transmission range is 100 metres in open space.	3VDC Power supply : 3VDC (2 x AAA batteries) not included Signal : learning code 868 Transmitter range : 100m in open space Detection angle : 180° Detection field : 8m forwards, 4.5 m sideways Indication / test : red lens behind lens. Installation height : 1.2m Time settings : Test, pulse 1 sec. - 30 min. Lux setting : 5-10,000 lux Protection : IP40 Temperature : 0°C to +50°C Colour : RAL 9010 Dimensions, LxWxH : 80x80x43.5mm Standards : CE
	873110 868-PNK-SCHAK 868MHz surface-mounted panic button. On pressing the button the transmitter sends a signal to the receivers to which it is logged in that sets the receivers to alarm mode. The receivers then flash for 30 seconds. The red LED displays the transmit status. The siren mode of 868 receiver 873255 can generate a continuous audible warning for 30 seconds. The switch has protection to IP44 and is suitable for use in bathrooms. The powered by 2xA23 batteries (12V, not included). The transmission range is 100 metres in open space.	12VDC Power supply : 12VDC (2xA23 battery (MN21 duracell)) Signal : learning code 868 Transmitter range : 100m in open space Protection : IP44 Temperature : -20°C to +50°C Dimensions, LxWxH : 90x90x40mm Standards : CE



Radiographic transmitters




Art. No.	Klemko number	Specifications
	<p>873030 868-ZWS-1V</p> <p>868MHz single wall transmitter with a learning code signal. The unit is supplied with a 50x50mm frame in RAL 9010. The transmitter can send a switching signal and select a dimming level. The switch can be installed in a flush-mounted junction box or at any required location. The switch can also be finished with other brands of frame. A red LED displays the transmit status. The transmission range is 100 metres in open space. The power is supplied by a button battery (3V, included).</p>	<p>3VDC</p> <p>Power supply : 3VDC (CR2032 button battery)</p> <p>Signal : learning code 868</p> <p>Transmitter range : 100m in open space</p> <p>Installation height : 1.2m</p> <p>Signal status : by LED</p> <p>Protection : IP20</p> <p>Temperature : 0°C to +50°C</p> <p>Colour : RAL 9010</p> <p>Dimensions, LxWxH: 80x80x16mm</p> <p>Standards : CE</p>
	<p>873035 868-ZWS-2V</p> <p>868MHz double wall transmitter with learning code signal. The unit is supplied with a 50x50mm frame in RAL 9010. The transmitter can send a switching signal and select a dimming level. The switch can be installed in a flush-mounted junction box or at any required location. The switch can also be finished with other brands of frame. A red LED displays the signal status. The transmission range is 100 metres in open space. The power is supplied by a button battery (3V, included).</p>	<p>3VDC</p> <p>Power supply : 3VDC (CR2032 button battery)</p> <p>Signal : learning code 868</p> <p>Transmitter range : 100m in open space</p> <p>Installation height : 1.2m</p> <p>Signal status : by LED</p> <p>Protection : IP20</p> <p>Temperature : 0°C to +50°C</p> <p>Colour : RAL 9010</p> <p>Dimensions, LxWxH: 80x80x16mm</p> <p>Standards : CE</p>
	<p>873100 868-Z-IB-UNI</p> <p>868MHz flat, universal flush-mounted transmitter with learning code signal. The transmitter can be activated by a potential-free pulse switch, make and break contacts or 230V contacts whereby the transmitter responds to the status by sending a switch-on or switch-off signal. The transmitter also has an alarm contact that sets the receivers to alarm mode. The transmission range is 100 metres in open space. The power is supplied by a button battery (3V, included).</p>	<p>3VDC</p> <p>Power supply : 3VDC (CR2032 button battery)</p> <p>Signal : learning code 868</p> <p>Transmitter range : 100m in open space</p> <p>Protection : IP40</p> <p>Temperature : 0°C to +50°C</p> <p>Colour : RAL 9010</p> <p>Dimensions, LxWxH: 50x50x12mm</p> <p>Standards : CE</p>

Art. No.	Klemko number	Specifications
	<p>873102 868-Z-OPB-UNI</p> <p>868MHz flat, universal flush-mounted transmitter in a universal surface-mount housing, with learning code signal. The transmitter can be activated by a potential-free pulse switch or by (non) potential-free make and break contacts. With 230V contacts the transmitter responds to a change in the status of the 230V contact and sends a switch-on or switch-off signal. The transmitter also has an alarm function which is triggered by a break contact and sets the receivers to alarm mode. The transmission range is 100 metres in open space. The power is supplied by a button battery (3V, included).</p>	<p>3VDC</p> <p>Power supply : 3VDC (CR2032 button battery)</p> <p>Signal : learning code 868</p> <p>Transmitter range : 100m in open space</p> <p>Installation height : 2m</p> <p>Protection : IP44</p> <p>Temperature : 0°C to +50°C</p> <p>Colour : RAL 9010</p> <p>Dimensions, LxWxH : 110x58x31mm</p> <p>Standards : CE</p>

Art. No.	Klemko number	Specifications
	<p>873115 868-MANAGER</p> <p>868MHz programmable manager with a configurable menu to set the transmission of commands to the selected receivers. The manager can be used to automate a system for the performance of a wide range of switching actions programmed in advance. The manager can control 8 different channels (on/off and dimming level). A week program is available for repetitive functions. The manager also has a random switch-on function for security purposes. The manager is easy to program using the simple menu and clear LCD display. The transmission range is 100 metres in open space. The power is supplied by 3x1,5v AA batteries (not included)</p>	<p>4.5VDC</p> <p>Power supply : 4.5VDC (3 x AAA 1.5V batteries)</p> <p>Signal : learning code 868</p> <p>Transmitter range : 100m, open space</p> <p>Transmit status : shown by pictogram in display</p> <p>Number of channels : 8</p> <p>Clock : DCF-controlled</p> <p>Function 1 : time-controlled switching</p> <p>Function 2 : 3 scenarios, programmable in advance</p> <p>Function 3 : random switching on for security (3 types)</p> <p>Installation : against a wall or on a base</p> <p>Protection : IP20</p> <p>Temperature : 0°C to +50°C</p> <p>Colour : RAL 9010</p> <p>Dimensions (wall) LxWxH : 130x86x29mm</p> <p>Dimensions (base) LxWxH : 130x100x55mm</p> <p>Base : supplied with unit</p> <p>Standards : CE</p>
	<p>873150 868-AFB-STAND</p> <p>868MHz standard remote control for the control of 3x6 groups of receivers (on/off or a dim level) and with "everything on" or "everything off" common functions. Powered by 4 AAA 1.5V batteries (not included). The common functions govern all groups. A red LED indicates the transmission of a signal and the group. The transmission range is 100 metres in open space.</p>	<p>6VDC</p> <p>Power supply : 6VDC (4 x AAA 1.5V batteries)</p> <p>Signal : learning code 868</p> <p>Transmitter range : 100m in open space</p> <p>Transmit status : displayed by red LED</p> <p>Number of groups : 3 of 6 channels each</p> <p>Common signal : Everything on/everything off</p> <p>Protection : IP40</p> <p>Temperature : 0°C to +50°C</p> <p>Colour : RAL 9010</p> <p>Dimensions, LxWxH : 190x55x26mm</p> <p>Standards : CE</p>
	<p>873155 868-AFB-COMF</p> <p>868MHz comfort remote control for the control of 3x6 groups of receivers (on/off or a dim level), with 3 scenario levels that can be configured independently of each other and with "everything on" or "everything off" common functions. Powered by 4 AAA batteries (not included). A red LED indicates the selected group and the transmission of a signal. The transmission range is 100 metres in open space.</p>	<p>6VDC</p> <p>Power supply : 6VDC (4 x AAA 1.5V batteries)</p> <p>Signal : learning code 868</p> <p>Transmitter range : 100m in open space</p> <p>Transmit status : displayed by red LED</p> <p>Number of groups : 3 of 6 channels each</p> <p>Common signal : Everything on/everything off</p> <p>Scenario settings : 3 complete scenarios</p> <p>Protection : IP40</p> <p>Temperature : 0°C to +50°C</p> <p>Colour : RAL 9010</p> <p>Dimensions, LxWxH : 190x55x26mm</p> <p>Standards : CE</p>

Art. No.	Klemko number	Specifications
 <p>The image shows a blue circular flush-mounted receiver with a potentiometer, a push button, and a red LED. It has a cable with a blue and black wire. The text on the device includes '873305 Mini Receiver', 'Power supply: 230VAC 50/60Hz', 'Load: 40-250W Ohms', 'Operation Temperature: 0°C to +50°C', and 'RF: 868MHz'. It also features a 'TIME' dial and a 'CE' mark.</p>	<p>873305 868-OV-IB-DB</p> <p>868MHz mini flush-mounted dimmer receiver that can be fitted behind a switch. The receiver is equipped with a triac output that can dim the lighting to every required level. The load can vary between 40-250W. Dimming is by phase-chopping. The dim receiver is equipped with a soft starter and soft stop. The unit can be operated by radiographic control and a potential-free make contact. The receiver can be configured as an automatic delayed drop-off relay with a delay from 1 minute to 4 hours. The receiver can be controlled by 20 different transmitters. The unit is equipped with a blue indication LED for the triac status and a red indication LED for the transmission of signals. The transmission range is 30 metres in open space.</p>	<p>230VAC</p> <p>Power supply : 230VAC 50/60Hz Dimming action : phase-chopping R.C. Load : 40-250W Ohms HV halogen : 40-250W LV halogen : 40-200VA electronic Time setting delayed : 1 min, 10 min, 30 min, 1 hour, 4 hours, infinite Drop-off : 1 hour, 4 hours, infinite External input : via pot.-free make or pulse contact</p> <p>Red LED : learning mode / relay status Signal : learning code 868MHz Transmitter range : 30m, open space Number of transmitters : 20 Protection : IP20 Temperature : 0°C to +50°C Colour : RAL 9010 Dimensions, LxWxH : 50.5x50.5x21mm Standards : CE</p>
 <p>The image shows a blue circular flush-mounted receiver with a potentiometer, a push button, and a blue LED. It has a cable with a blue and black wire. The text on the device includes '873255 Mini Receiver', 'Power supply: 230VAC 50/60Hz', 'Load: 8A cos phi=1', 'Operation Temperature: 0°C to +35°C', and 'RF: 868MHz'. It also features a 'TIME' dial and a 'CE' mark.</p>	<p>873255 868-OV-IB-8A</p> <p>868MHz mini flush-mounted receiver that can be installed behind a switch mounted in the wall. The receiver has an 8A potential-free relay output that can be used to switch a wide range of voltages and signals. The receiver can be operated by radiographic control and a potential-free make contact. The receiver can be configured as an automatic delayed drop-off relay with a delay that can be set to one of 4 times from 3 minutes to 4 hours and to infinite. The receiver can be controlled by no less than 20 different transmitters. The receiver is equipped with a blue indication LED for the relay status and a red indication LED for the transmission of signals. The transmission range is 100 metres in open space.</p>	<p>230VAC</p> <p>Power supply : 230VAC 50/60Hz Load : 8A cos phi=1 Ohmic load : 1,000W HV halogen : 500W LV halogen : 300VA PL lamp : 200VA, non-compensated Fluorescent HF : max. 2 HF VSA (100VA) Fluorescent parallel comp. : 2x58W (max. 10uF) Fluorescent parallel comp. : via secondary relay for higher power ratings</p> <p>Time setting delayed : pulse (signal following, e.g. door opener) Drop-off : 3 min, 30 min, 1h, 4h, infinite Siren : siren mode for 30 sec. full (solely via panic button) External input : 1 x via pot.-free make or pulse contact</p> <p>Blue LED : relay status indication Red LED : learning mode / signal indication Signal : learning code 868 Transmission range : 100m in open space Protection : IP20 Temperature : -0°C to +35°C Colour : RAL 9010 Dimensions, LxWxH : 50.5x50.5x21mm Standards : CE</p>

Art. No.	Klemko number	Specifications
	<p>873310 868-OV-OPB-DB</p> <p>868MHz surface-mounted dimmer receiver that can be fixed to every surface. The receiver is pre-assembled in an IP44 surface-mount housing. The receiver is equipped with a triac output that can dim the lighting to every required level. The load can vary between 40-250W. Dimming is by phase-chopping. The dim receiver is equipped with a soft starter and soft stop. The unit can be operated by radiographic control and a potential-free make contact. The receiver can be configured as an automatic delayed drop-off relay with a delay from 1 minute to 4 hours. The receiver can be controlled by 20 different transmitters. The unit is equipped with a blue indication LED for the triac status and a red indication LED for the transmission of signals. The transmission range is 30 metres in open space.</p>	<p>230VAC</p> <p>Power supply : 230VAC 50/60Hz Dimming action : phase-chopping R.C. Load : 40-250W Ohms HV halogen : 40-250W LV halogen : 40-200VA electronic Time setting delayed : 1 min, 10 min, 30 min, 1h, 4h, infinite drop-off External input : via pot.-free make or pulse contact Red LED : learning mode / relay status Signal : learning code 868MHz Transmitter range : 30m, open space Max. no. transmitters : 20 Protection : IP44 Temperature : -20°C to +50°C Colour : RAL 9010 Dimensions, LxWxH: 110x58x31mm Standards : CE</p>
	<p>873260 868-OV-OPB-8A</p> <p>868MHz receiver in an IP44 surface-mount housing than can be fixed to any surface. The receiver has an 8A potential-free relay output that can be used to switch a wide range of voltages and signals. The receiver can be configured as an automatic delayed drop-off relay with a delay that can be set to one of 4 times from 3 minutes to 4 hours and to infinite. The receiver can be controlled by no less than 20 different transmitters. The receiver is equipped with a blue indication LED for the relay status and a red indication LED for the transmission of signals. The transmission range is 100 metres in open space.</p>	<p>230VAC</p> <p>Power supply : 230VAC 50/60Hz Load : 8A cos phi=1 Ohmic load : 1,000W HV halogen : 500W LV halogen : 300VA PL lamp : 200VA, non-compensated Fluorescent HF : max. 2 HF VSA (100VA) Fluorescent parallel comp. : 2x58W (max. 10uF) Fluorescent parallel comp. : via secondary relay for higher power ratings Time setting delayed : pulse (signal following, e.g. door opener) Drop-off : 3 min, 30 min, 1h, 4h, infinite Siren : siren mode for 30 sec. full (solely via panic button) External input : N/A Blue LED : relay status indication Red LED : learning mode / signal indication Signal : learning code 868 Transmitter range : 100 m in open space Protection : IP44 Temperature : -20C to +35°C Colour : RAL 9010 Dimensions, LxWxH : 110x58x31mm Standards : CE</p>

Art. No.	Klemko number	Specifications
	<p>873250 868-OV-WCD16A</p> <p>868MHz receiver / socket that can be plugged into wall sockets. The receiver is equipped with a 16A relay and can be controlled by 20 different transmitters. The receiver is equipped with a blue indication LED for the relay status and a red indication LED for the transmission of signals. The transmission range is 100 metres in open space.</p>	<p>230VAC</p> <p>Power supply : 230VAC 50/60Hz Load : 16A cos phi=1 Signal : learning code 868 Transmitter range : 100m in open space Protection : IP40 Temperature : 0C to +35°C Colour : RAL 9010 Dimensions, LxWxH : 131x81.5x67mm Standards : CE</p>
	<p>873300 868-OV-WCD-DB</p> <p>868MHz receiver / dimmer-socket that can be plugged into wall sockets. The receiver is equipped with a triac output that can dim the lighting to every required level (40-400W). Dimming is by phase-chopping. The receiver can be controlled by 20 different transmitters. The unit is equipped with a blue indication LED for the relay status and a red indication LED for the transmission of signals. The transmission range is 30 metres in open space.</p>	<p>230VAC</p> <p>Power supply : 230VAC 50/60Hz Load : 40-400W (ohms) HV halogen : 40-400W LV halogen : 40-300W Signal : learning code 868 Transmitter range : 30m, open space Protection : IP40 Temperature : 0C to +35°C Colour : RAL 9010 Dimensions, LxWxH : 31x81.5x67mm Standards : CE</p>
	<p>873265 868-OV-OPB-3V</p> <p>868MHz triple receiver with three different relay outputs, each 1,000W (ohms). Assembled in an IP20 surface-mount housing. Each relay output is powered by the connected phase. When the relay is closed this power is supplied to the following circuit. Each relay can be controlled by 10 different transmitters. In addition, 1 transmitter can control all the relays simultaneously. The receiver is equipped with a red indication LED for the relay status and signal status. The transmission range is 100 metres in open space.</p>	<p>230VAC</p> <p>Power supply : 230VAC 50/60Hz Relay outputs : 3 x make contact (phase switching) Load : 5A cos phi=1 per relay Ohmic load : 1,000W per relay HV halogen : 500W per relay LV halogen : 300VA per relay PL lamp : 200VA, non-compensated (max. 10uF) Fluorescent HF : max. 2 HF VSA (100VA) Fluorescent parallel comp. : 2x58W (max. 10uF) Fluorescent parallel comp. : via secondary relay for higher power ratings Red LED : learning mode / relay status Signal : learning code 868 Transmitter range : 100m in open space Protection : IP20 Temperature : 0°C to +50°C Colour : RAL 9010 Dimensions, LxWxH : 110x52x30mm Standards : CE</p>