MAINS' ELEKTRONICS

CHECKOUT CONTROLLERS

PRODUCT CATALOGUE

Our production

We offer reliable construction, which are produced from the best components. Our device is durable, fail-safe, and easy to assemble and work with. Below, there are a few words listed about its parameters.

1. Casing - made from ABS material, the thickness of its many parts exceeds 3 millimeters, thanks to which it will not be damaged easily.
2. The front panel is thick and hard, which allows mounting a controller with four screws that guarantee its steadiness.
3. Keyboard - made especially for us by the expert in this field, namely Qwerty. It is produced from 3M membranes that ensure life counted in millions of switches.
4. Graphic design - allows creating the individual image of our controller according to costumer request.
5. Safety button - we use the highest quality of switches produced by ABB and EAO that are experts in electric accessories.
6. On/off switches - are highly reliable.
7. PCB board - is printed on thick glass laminate with thick copper layer. It is produced according to the strictest norms.
8. Electronic components -are always of the highest quality in order to ensure the longest possible life.
9. Connectors - endurance of high voltage socket is 16A/250V, which exceeds the normal height of voltage during regular operation. Different colours of connectors ease of assembly.
10. Photocell - is a construction worked out by us. It does not require any adjustment and it is easy to assemble. It has high tolerance for axis deviation between transmitter and receiver. Its life span is over 10 years.
11. Our controllers have different kinds of inputs and outputs. They improve the safety and make the work at checkouts more ergonomic.
- input for motor cover sensor; protects against drawing objects under the cover
- input for thermal motor sensor; ensure protection against overheating
- output for controlling of checkout lighting; for comfort in work
- output for controlling of checkout lights indicating their work
- other necessary outputs such as output for controlling a bell, etc.

12. Outputs for main belts motors mostly have soft start option, which protects against falling tall objects (ex. bottles).
13. Compact construction allows fast assembly of a controller in checkout box. Motor capacitors are already mounted inside a controller. Small size of casing does not require much space in checkout box.
14. Each controller has software that facilitates first installation in checkout box and allows fast checking of peripheries such as photocells, footswitches and sensors.

The 14 points listed are only the main features that characterize our devices. The final effects depend on teamwork of well-qualified employees, who do their best to satisfy our costumers. Our manufacturing process undergoes in accordance with ISO9001. In the beginning of our company existence, we manufactured 1000-1500 devices annually. Nowadays, we manufacture 1000-2000 devices monthly. It means that there are thousands of building in which there are checkout boxes with Mains Controllers. Our devices are used not only in shopping malls but also in small shops in housing estate. You can see our controllers in the biggest chains of supermarkets all around the world.

We guarantee the checkout box producers the continuity of delivery, the most reasonable prices, and time saving consumed by controller assembly in checkout box.

Our products have 30 months warranty, we conduct professional service of checkout box controllers. Post-warranty repairs of our controllers we can conduct within 24 hours (shipment of a fixed controller is the next day after their delivery).

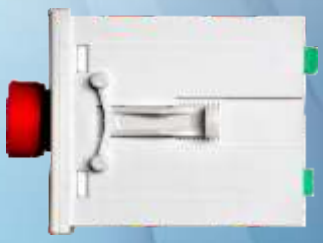
We believe in quality and reliability. Please, familiarize yourself with our offer.

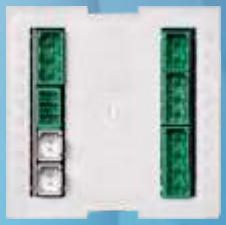
This controller is designed for automatic operation or in control mode with one conveyor belt.

It is the smallest of our controllers and thus easy to assemble in small spaces.

Product features:

- belt stopping with the use of a photocell
- control of a belt with a footswitch
- automatic stopping of an empty belt
- input for motor cover sensor
- output for signal light or checkout box lighting
- controller integrated into one module
- photocell included
- mounting in the checkout box case or attached with a handle

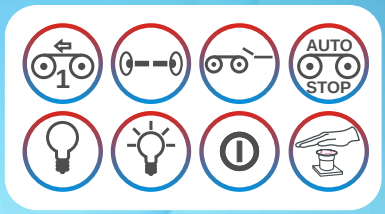




Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	300 VA
Max. motor current:	1A
Max. lamp power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	72x72x107mm
Mass:	290g



This controller is designed for automatic operation or in control mode with one conveyor belt.

A simplified model of the controller Mv4. Only the basic functions.

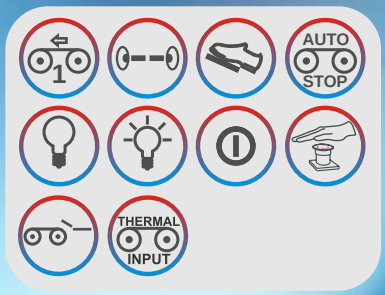
Product features:

- belt stopping with the use of a photocell
- control of a belt with a footswitch
- automatic stopping of an empty belt
- input for motor cover sensor
- output for signal light
- output for operation of checkout box lighting
- controller integrated into one module
- photocell included
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	450 VA
Max. motor current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	178x55x224mm
Mass:	565g



This controller is designed for automatic operation or in control mode with one conveyor belt.

It is the newest version of Mv4k enriched with inputs for thermal sensors and an inductive motor.

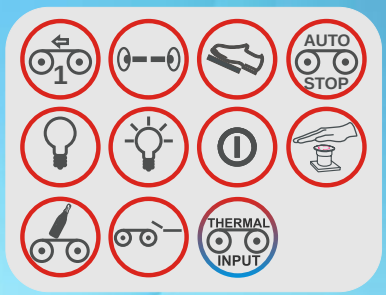
Product features:

- belt stopping with the use of a photocell
- control of a belt with a footswitch
- automatic stopping of an empty belt
- input for motor cover sensor
- input for motor thermal sensor
- two outputs for signal light or other lighting
- motor soft start
  (bottles do not fall while the belt starts running)
- setting key for the signal light work placed on a front keyboard
- photocell included
- controller integrated into one module
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	550 VA
Max. motor current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	178x55x224mm
Mass:	615g



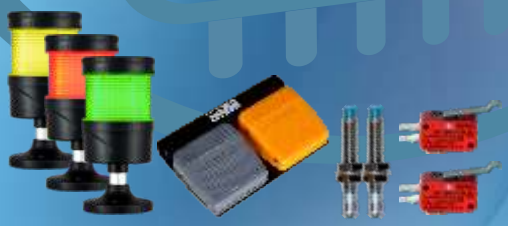
This controller is designed for automatic operation or in control mode with one or two conveyor belts.

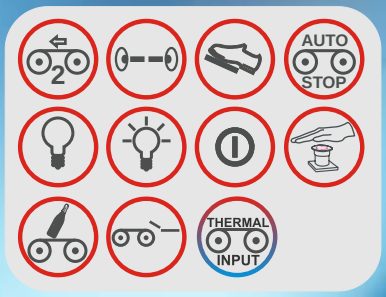
Two belts, two lights, double set of sensors.

Product features:

- belt stopping with the use of a photocell
- control of a belt 1 with a footswitch 1
- control of a belt 2 with a footswitch 2
- automatic stopping of an empty belt
- two inputs for motor cover sensor
- inputs for motor thermal sensor
- two outputs for signal light or other lighting
- motor soft start of first conveyor belt (bottles do not fall while the belt starts running)
- setting key for the signal light work placed on a front keyboard
- setting of work time for a second belt
- photocell included
- controller integrated into one module
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected





Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	700 VA
Max. motor 1 current:	1A
Max. motor 2 current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	178x55x224mm
Mass (1 motor):	630g
Mass (2 motors):	670g

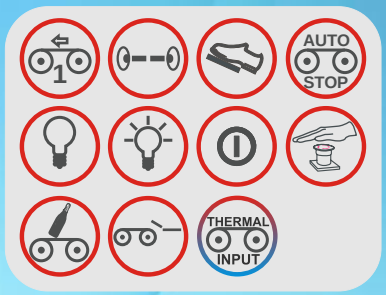
This controller is designed for automatic operation or in control mode with one conveyor belt.

In this model the second motor output is used as additional output for controlling signal lights.

Product features:

- belt stopping with the use of a photocell
- control of a belt with a footswitch
- automatic stopping of an empty belt
- input for motor cover sensor
- input for motor thermal sensor
- three outputs for signal lights
- motor soft start
  (bottles do not fall while the belt starts running)
- setting key for the signal light work placed on a front keyboard
- photocell included
- controller integrated into one module
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected



Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	550 VA
Max. motor current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	178x55x224mm
Mass:	615g

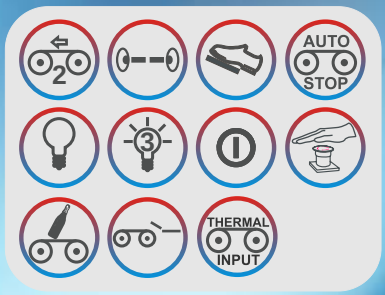
This controller is designed for automatic operation or in control mode with one or two conveyor belts.

Three lights controlled seperately.

Product features:

- belt stopping with the use of a photocell
- control of a belt 1 with a footswitch 1
- control of a belt 2 with a footswitch 2
- automatic stopping of an empty belt
- input for motor cover sensor
- input for thermal sensor
- outputs for signal lights
- motor soft start of first conveyor belt (bottles do not fall while the belt starts running)
- setting key for the signal light work placed on a front keyboard
- setting of work time for a second belt
- photocell included
- controller integrated into one module
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected



Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	750 VA
Max. motor 1 current:	1A
Max. motor 2 current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions (1 motor):	178x55x224mm
Dimensions (2 motors):	178x55x240mm
Mass (1 motor):	695g
Mass (2 motors):	740g

CONTROLLER
Mv12RNex1/2

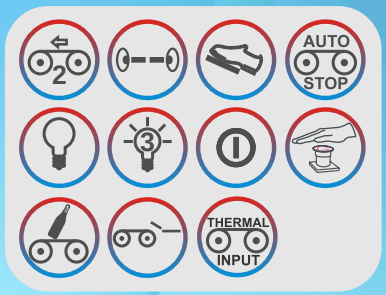
This controller is designed for automatic operation or in control mode with one or two conveyor belts.

It is other version of the controller Mv12Rk enriched with the option of second belt work.

Product features:

- belt stopping with the use of a photocell
- control of a belt 1 with a footswitch 1
- control of a belt 2 with a footswitch 2
- automatic stopping of an empty belt
- input for motor cover sensor
- input for thermal sensor
- output for checkout box lighting
- outputs for signal lights
- motor soft start of first conveyor belt (bottles do not fall while the belt starts running)
- setting key for the signal light work placed on a front keyboard
- setting of work time for a second belt
- photocell included
- controller integrated into one module
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected



Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	750 VA
Max. motor 1 current:	1A
Max. motor 2 current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions (1 motor):	178x55x224mm
Dimensions (2 motors):	178x55x240mm
Mass (1 motor):	695g
Mass (2 motors):	740g

CONTROLLER
Mv12k1/2

This controller is designed for automatic operation or in control mode with two conveyor belts.

It is an advanced option of controller with extended menu.
Its software allows setting of over twenty parameters.
Applied display eases the operation of a checkout box.
Two photocells give wide possibility of checkout box work.

Product features:

- belt stopping with the use of a photocell
- control of a belt 1 with a footswitch 1
- control of a belt 2 with a footswitch 2
- automatic stopping of an empty belt
- input for motor cover sensor
- input for thermal sensor
- output for checkout box lighting
- outputs for the signal lights
- motor soft start of first conveyor belt (bottles do not fall while the belt starts running)
- setting key for the signal light work placed on a front keyboard
- setting of work time for a second belt
- rich menu of controller software
- photocell included
- controller integrated into one module
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	800 VA
Max. motor 1 current:	1A
Max. motor 2 current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	178x55x240mm
Mass (1 motor):	705g
Mass (2 motors):	750g

CONTROLLER
Mv6k+EM6/1/2

This controller is designed for automatic operation or in control mode with one or two conveyor belts.

The controller Mv6 includes control module and EM6 executive module. This solution allows assembly in spaces of limited depth, for example, on the side of a checkout box.

Product features:

- belt stopping with the use of a photocell
- adjustable cooperation way of belt 2 with belt 1
- control of a belt 1 with a footswitch 1
- control of a belt 2 with a footswitch 2
- automatic stopping of an empty belt
- inputs for motor cover sensor
- inputs for thermal sensor
- outputs for three signal lights
- motor soft start of first conveyor belt (bottles do not fall while the belt starts running)
- setting key for the signal lights work placed on a front keyboar
- setting of work time for a second belt
- additional safety sensor switch on a keyboard
- moving the belt by pressing the button on a keyboard
- setting configuration of output circuits by a keyboard
- photocell included
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	800 VA
Max. motor 1 current:	1A
Max. motor 2 current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions (control module):	178x55x33mm
Mass (control module):	105g
Dimensions (exec. module):	178x55x240mm
Mass (executive module):	750g

CONTROLLER Mv9+EM6/1/2

This controller is designed for automatic operation or in control mode with one or two conveyor belts.

The controller includes Mv9 control module and EM6 executive module. This solution allows assembly in spaces of limited depth, for example, on the side of a checkout box.

Product features:
- belt stopping with the use of a photocell
- adjustable cooperation way of belt 2 with belt 1
- control of a belt 1 with a footswitch 1
- control of a belt 2 with a footswitch 2
- automatic stopping of an empty belt
- inputs for motor cover sensor
- inputs for thermal sensor
- outputs for three signal lights
- motor soft start of first conveyor belt (bottles do not fall while the belt starts running)
- setting key for the signal light work placed on a front keyboard
- setting of work time for a second belt
- additional safety sensor switch on a keyboard
- moving the belt by pressing the button on a keyboard
- setting configuration of output circuits by a keyboard
- photocell included
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	800 VA
Max. motor 1 current:	1A
Max. motor 2 current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions (control module):	120x70x25mm
Mass (control module):	90g
Dimensions (exec. module):	178x55x240mm
Mass (executive module):	750g

CONTROLLER
Mv9max+EM6/1/2

This controller is designed for automatic operation or in control mode with one or two conveyor belts.

The Mv9 controller includes Em6 control and executive module. This solution allows assembly in spaces of limited depth, for example, on the side of a checkout box.

Product features:

- belt stopping with the use of a photocell
- adjustable cooperation way of belt 2 with belt 1
- control of a belt 1 with a footswitch 1
- control of a belt 2 with a footswitch 2
- automatic stopping of an empty belt
- inputs for motor cover sensor
- inputs for thermal sensor
- outputs for three signal lights
- motor soft start of first conveyor belt (bottles do not fall while the belt starts running)
- setting key for the signal light work placed on a front keyboard
- setting of work time for a second belt
- additional safety sensor switch on a keyboard
- moving the belt by pressing the button on a keyboard
- setting configuration of output circuits by a keyboard
- photocell included
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	800 VA
Max. motor 1 current:	1A
Max. motor 2 current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions (control module):	120x70x25mm
Mass (control module):	90g
Dimensions (exec. module):	178x55x240mm
Mass (executive module):	750g

CONTROLLER
Mv9max+EM9/1/2/3

This controller is designed for automatic operation or in control mode with one, two or three conveyor belts.

The Mv9 controller includes EM9 control and executive module. This solution controlling each light seperately and it allows to control very advanced checkout boxes.

Product features:

- automatic operation of the belt conveyor
- the operation of one, two or three belts in different modes
- the main switch and safety switch completely shutting off power of the controller
- integrated start phases of motors
- automatic operation with the use of a photocell
- automatic stopping of an empty belt
- inputs for motor cover sensor
- outputs for three signal lights
- motor soft start of first conveyor belt (bottles do not fall while the belt starts running)
- setting of work time for a second and third belt
- additional safety sensor switch on a keyboard
- moving the belt by pressing the button on a keyboard
- setting configuration of output circuits by a keyboard
- photocell included
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Max. power consumption:	1030 VA
Max. motor 1 current:	1A
Max. motor 2 current:	1A
Max. motor 3 current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA
Thermal sensor type:	NC
Inductive sensor type:	npn, DC 12V
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions (control module):	120x70x25mm
Mass (control module):	90g
Dimensions (exec. module):	230x60x270mm
Mass (executive module):	1890g

CONTROLLER
Mv3bis

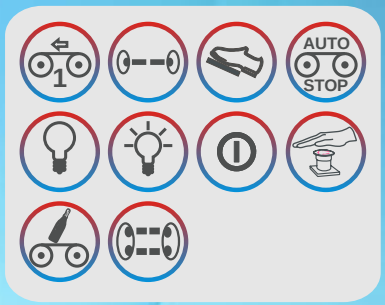
This controller is used to supply the power and control the checkout box conveyor with one motor.

Product features:
- automatic operation of the belt conveyor
- belt work with the use of one or two photocells
- automatic stopping of an empty belt
- control of a belt with a footswitch (optional)
- output for checkout box lighting
- outputs for signal lights (constant or pulse)
- the main switch and safety switch integrated in one module
- inputs for thermal sensor (optional)
- photocell included
- mounting in the checkout box case or attached with a handle

Additional accessories can be connected

Specifications:

Power supply:	220-240V AC 50Hz
Power consumption	400 VA
Max. motor current:	1A
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA:
Photocell type:	Mains 940nm
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	112x100x230mm
Mass:	1140g



Controller is used to switch on and off the signal lights of the box. There are versions for standard bulbs as well as optional versions for 5V or 24V DC LED bulbs.

Product features:

- output 230V of lighting
- three outputs 230V 100VA of signal lamps or:
- 5V DC 2A for LED lamps
- 12V DC 1A for LED lamps
- 15V DC 0,8A for LED lamps
- 24V DC 0,5A for LED lamps
- constant or pulse light
- mounting in the checkout box case or attached with a handle

Specifications of the high voltage version:

Power supply:	220-240V AC 50Hz
Max. power consumption:	300VA
Max. lamp 1 power:	100VA
Max. lamp 2 power:	100VA
Max. lamp 3 power:	100VA

Specifications of the low voltage version:

Power supply:	220-240V AC 50Hz
Max. power consumption:	13VA
Max. lamp 1+2+3 (5V DC) power:	10VA

Power supply:	220-240V AC 50Hz
Max. power consumption:	15VA
Max. lamp 1+2+3 (12V DC) power:	12VA

Power supply:	220-240V AC 50Hz
Max. power consumption:	15VA
Max. lamp 1+2+3 (15V DC) power:	12VA

Power supply:	220-240V AC 50Hz
Max. power consumption:	15VA
Max. lamp 1+2+3 (24V DC) power:	12VA

Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	178x55x224mm
Mass:	500g

PHOTOELECTRIC SENSORS
Type A, Type B, Type C

Photocells type A, B and C are used for each our controller.

Our photocells do not require any adjustment due to lighting condition. They have high tolerance for perpendicular axis deviation between transmitter and receiver, thanks to which they are resistant to checkout box deformation where they are mounted. Hermetic housing protects a photocell against spilling and pollution. They are reliable for over 10 years.

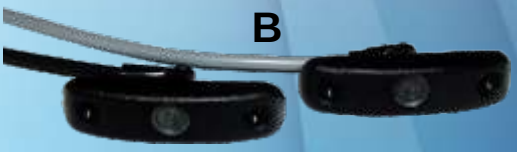
The photocells set includes a transmitter and receiver. On request, cable length can be adjusted to the dimensions of the box (cables longer than 4m are not recommended). In standard version, our photocells are ended with a plug which is connected to the controller PCB. All photocells cooperate with Mains Controllers only.

Specifications:

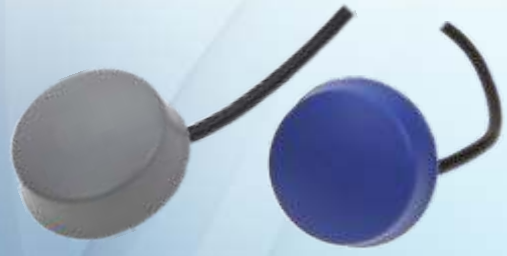
Type:	infrared
Wavelength:	940nm
Optimum range:	0,7m
Max. intensity of the external light:	800lux
Max. perpendicular deviation of the axis:	7°
Max. parallel movement from the axis:	0,05m
Operating temperature:	5°C~540°C
Operating humidity:	10%~85%
Cable length:	2,2m
Max. cable length:	4,0m
Mass A type:	55g
Mass B type:	65g
Mass C type:	60g

Photocell type A
It is fixed to the housing of checkout box with one screw.

Photocell type B
It is fixed to the housing of checkout box with two screws.



Photocell type C
It is fixed to the housing of checkout box by pushing in.



6241

Specifications:

Rating Load AC (with resistance load):	3A / 250 VAC
Outgoing cable:	2m wire 2x0.75mm
Insulation resistance:	100MΩ /km
(available with plug-in)	
Dimensions:	Ø40x16mm
Mass:	60g

6227-S

Specifications:

Rating Load AC (with resistance load):	6 A / 250 VAC
Outgoing cable:	2m wire 2x0.75mm
Insulation resistance:	100MΩ /km
(available with plug-in)	
Dimensions:	72x96x26mm
Mass:	120g

6210

Specifications:

Rating Load AC (with resistance load):	3 A / 250 VAC
Outgoing cable:	2m wire 2x0.75mm
Insulation resistance:	100MΩ /km
(available with plug-in)	
Dimensions:	105x141x40mm
Mass:	375g

XF-201G XF-201Y

Specifications:

Rating Load AC (with resistance load):	10 A / 250 VAC
Outgoing cable: (available with plug-in)	2m wire 2x0.75mm
Protection degree:	IP50
Mechanical life:	10000000 cycle
Max. contact resistance:	15 mΩ
Electrical life:	100000 cycle
Insulation resistance:	100MΩ/km
Dimensions:	80x82x34mm
Mass:	260g

XF-01

Specifications:

Rating Load AC (with resistance load):	10 A / 250 VAC
Outgoing cable: (available with plug-in)	2m wire 2x0.75mm
Protection degree:	IP50
Mechanical life:	10000000 cycle
Max. contact resistance.:	25 mΩ
Electrical life:	100000 cycle
Insulation resistance:	100MΩ/km
Dimensions:	61x100x34mm
Mass:	170g

XF-201GM XF-201YM

Specifications:

Rating Load AC (with resistance load):	10 A / 250 VAC
Outgoing cable: (available with plug-in)	2m wire 2x0.75mm
Protection degree:	IP50
Mechanical life:	10000000 cycle
Max. contact resistance:	15 mΩ
Electrical life:	100000 cycle
Insulation resistance:	100MΩ/km
Dimensions:	98x140x32mm
Mass:	430g

XF-85

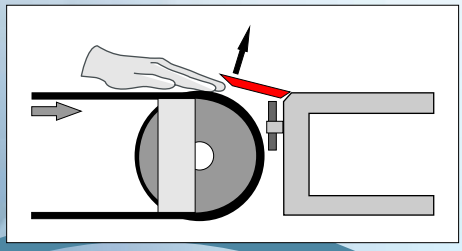
Specifications:

Rating Load AC (with resistance load):	10 A/250 VAC
Outgoing cable: (available with plug-in)	2m wire 3x0.75mm
Protection degree:	IP54
Mechanical life:	10000000 cycle
Max. contact resistance:	15 mΩ
Electrical life:	100000 cycle
Insulation resistance:	100MΩ/km
Dimensions:	150x120x36mm
Mass:	530g

XF-201D

Specifications:

Rating Load AC (with resistance load):	10 A / 250 VAC
Outgoing cable: (available with plug-in)	2m wire 3x0.75mm
Protection degree:	IP54
Mechanical life:	10000000 cycle
Max. contact resistance:	15 mΩ
Electrical life:	100000 cycle
Insulation resistance:	100MΩ/km
Dimensions:	170x112x36mm
Mass:	720g



During the operation of the box, some small items and even fingers can get under the motor guard. In order to protect against pulling into, we recommend the use sensors mounted under the motor guard. In our offer you can find inductive sensors and mechanical sensors.

Mechanical sensors:

XV-154-1C25

XV-15-F9

XV-152-1C25

XV-156-1C25

XV-15-F11

XV-155-1C25

Specifications:

Operating speed:	0.1mm-1m/s
Operating frequencyMechanical:	600times/min
Electrical:	30times/min
Insulation resistance:	100M? (Above) DC500V
Contact resistance:	25M? (initial value)
Withstand voltageNon-connection wire:	1000VAC
Every terminal:	1500VAC
Vibration Misoperation 10-55Hz Amplitude:	1.5mm
Impact Durable:	1000m/s2
Misoperation:	300m/s2
LifeElectrical:	100,000above
Mechanical:	1,000,000above
Protection degree:	IP40
Operating temperature:	-25~+80°C
Operating humidity:	10%-85%

Inductive sensors:

MAL J8A3-02-Z/BY

Specifications:

Structure:	Roller screw
Thread size:	M8x1
Maximal operating distance:	2mm
Dimensions:	50mm
Power supply:	DC 6 ... 36 V
Load current:	≤200 mA
Electromagnetic compatibility:	according to EN 60947-5-2
Short-circuit protection (pulse):	yes
Protection against polarity change:	yes
Pulse attenuation at turn on power supply:	yes
Protection type:	IP 67
Ambient temperature from …to:	-25°C ... +75 °C
Housing material:	Nickel-plated brass, plastic
Voltage drop:	≤2 V 1
Tightening torque:	6Nm

MAN S08-04NPSZW2S

Specifications:

Structure:	Roller screw
Thread size:	M8x1
Maximal operating distance:	4mm
Dimensions:	50mm
Power supply:	DC 10 ... 30 V
Load current:	≤200 mA
Electromagnetic compatibility:	according to EN 60947-5-2
Short-circuit protection (pulse):	yes
Protection against polarity change:	yes
Pulse attenuation at turn on power supply:	yes
Protection type:	IP 67
Ambient temperature from …to:	-25°C ... +75 °C
Housing material:	Nickel-plated brass, plastic
Voltage drop:	≤2 V 1
Tightening torque:	6Nm

SIGNAL LIGHTS
RGB/12V, RGB/230V

RGB LED light is intended for signalizing the checkout box working condition.

We joined three colours of a light into one module. The possibility of connecting colours gives extra colours such as yellow and white. In this case, the light can glow different colours alternately due to needs.

Additional fittings are light handles, which ease the lights assembly at the checkout box stand.

Colour possibilities

Fixing variations

Specifications of the high voltage version:

Power supply:	220-240V AC 50Hz
Max. power consumption:	5VA
Max. red colour power:	1,5VA
Max. green colour power:	1,5VA
Max. blue colour power:	1,5VA
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	147x72mm
Mass:	200g

Specifications of the low voltage version:

Power supply:	12V DC
Max. power consumption:	5VA
Max. red colour power:	1,5VA
Max. green colour power:	1,5VA
Max. blue colour power:	1,5VA
Operating temperature:	5ºC~+40ºC
Operating relative humidity (non-condensing):	10%~80%
Dimensions:	147x72mm

LEGEND

1A 1B 1C 1- the operation of one, two or three belts

2 - automatic mode with the use of a photocell

3 - the possibility of controlling the conveyor belt using a footswitch

4A 4B 4 - output for signal light constant (4A) or pulse (4B)

AUTO STOP 5 - automatic start and stop

6 - soft start of the conveyor (the bottles do not fall down as the belt starts moving)

7 - main switch

8 - safety switch

9 - motor cover sensor (inductive or mechanical)

10 - the possibility of programming output circuits by using the keyboard controller

11 - overload switch

12 - automatic work with the use of two photocells

TIME 13 - operating hours counter

COM 14 - the possibility of programming output circuits by using the PC

SERVICE 15 - indication of the forthcoming review

THERMAL INPUT 16 - input for the motor thermal sensor

Table of available functions in controllers

feature / model	Mv11	Mv7n	Mv7 future	Mv4k	Mv4k/2	Mv4kl	Mv12Rk	Mv12R/2	Mv12R	Mv12Rk/2	Mv12Nex	Mv12Nex/2	Mv12k	Mv12k/2	Mv6k+EM6	Mv6k+EM6/2	Mv9k+EM6	Mv9k+EM6/2	Mv9max+EM6/2	Mv9max+EM9	Mv3bis	Mvl21	feature / model
1 motor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		1 motor
2 motor					●			●		●		●		●		●		●	●	●			2 motor
3 motor																				●			3 motor
photocell 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		photocell 1
photocell 2													○	○							○		photocell 2
lamp output	○	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	lamp output
signal lamp output 1	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	signal lamp output 1
signal lamp output 2			○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	signal lamp output 2
signal lamp output 3							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	signal lamp output 3
soft start			○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			soft start
programming belt time 1													●	●	●	●	●	●	●	●			programming belt time 1
programming belt time 2					●			●		●		●		●				●	●	●			programming belt time 2
programming belt time 3																				●			programming belt time 3
footswitch output 1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○		footswitch output 1
footswitch output 2					○			○		○		○		○		○		○	○	●			footswitch output 2
footswitch output 3																				●			footswitch output 3
inductive sensor input	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○				inductive sensor input
mechanical sensor input	○	○	○	○	○	○	○	○	○	○	○	○	○	○									mechanical sensor input
thermal sensor input	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		thermal sensor input
belt autostart	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		belt autostart
belt autostop	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		belt autostop
peripheral test	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			peripheral test
housing 1 module	●	●	●	●	●	●	●	●	●	●	●	●	●	●							●	●	housing 1 module
housing 2 modules															●	●	●	●	●	●			housing 2 modules
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● - function available as standard

○ - function available on request

In a standard versions of controllers we use motor capacitor 6 uF/450V.
If the engine specifications requires other capacity, please contact our technical department.

MAINS' ELEKTRONICS

TABLE OF CONTROLLERS FEATURES

MAINS' ELEKTRONICS

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