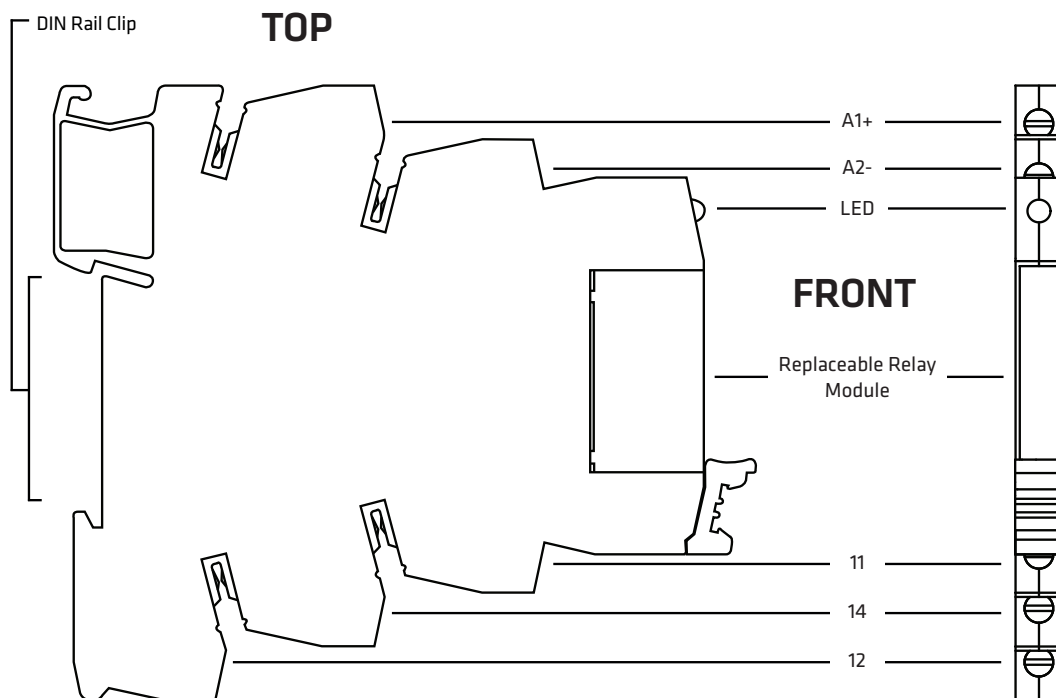


## Relay

The Click 120/121 provide an interface between Click contact closure devices and signaling systems. Isolations, signal translation, and noise immunity are all inherent to these relays.



- Super thin design
- Features vibration-resistant plug-in bridge system
- Integrated input wiring and protective circuit
- Terminals feature easy-to-use screw connection (Click 120) or spring cage (Click 121) technology
- Relay section can be easily removed using engagement lever if it needs to be replaced
- High level of operational safety
- Relay portion features cadmium-free, environmentally friendly power contacts
- Status-indicating LED
- 4 kVrms electrical isolation between input and output on relay



## Technical specifications

### Physical

- Weight: 0.08 lbs. (36 g)
- Physical dimensions: 3.1 in. x 0.2 in. x 3.7 in. (8 cm x 0.6 cm x 9.4 cm)
- Ambient operating temperature: -4°F to 140°F (-20°C to 60°C)

### Mounting

- DIN rail-mountable

### Connections

- Coil side: two screw terminals (Click 120) or spring cage terminals (Click 121) for wiring in from contact closure card or controller
- Contact side: three screw terminals (Click 120) or spring cage terminals (Click 121) for wiring to load(s)

### Monitoring feature

- Status monitoring feature: LED

### Replaceability

- Main relay portion can be easily removed and replaced using engagement lever

### Coil side

- Nominal input voltage: 24 VDC
- Contact type: SPDT
- Nominal input current: 7 mA
- Limiting continuous current: 6 A
- Typical response time: 5 ms
- Contact material: AgSnO
- Typical release time: 2.5 ms
- Maximum switching voltage: 250 V AC/DC
- Coil resistance: 3390 Ohm  $\pm$  10% (at 68°F/20°C)

### Contact side

- Contact type: SPDT
- Contact material: AgSnO
- Switching voltage: 12–250 VAC/VDC
- Minimum switching current: 10 mA
- Limiting continuous current: 6 A
- Interrupting rating (ohmic load) max.: 140 W (for 24 V DC)
- Interrupting rating (ohmic load) max.: 23 W (for 110 V DC)
- Interrupting rating (ohmic load) max.: 40 W (for 220 V DC)
- Interrupting rating (ohmic load) max.: 1500 VA (for 250 V AC)

### Testing

- Passes manufacturer's test before shipping

## Ordering information

Click 120  
**CLK-120**

Click 121  
**CLK-121**

### Contact us

801.734.7200  
sales@wavetronix.com  
www.wavetronix.com

### Extended support

- Extended support options are available from Wavetronix; contact a Wavetronix representative for more information

### Warranty

- One-year warranty against material and workmanship defect (see Click Warranty datasheet for complete details)

## Bid specifications

**1.0 General.** This item shall govern the purchase and installation of a relay module (RM) equivalent to the Wavetronix Click 120/ 121. Test results and other documentation demonstrating performance and capabilities shall be provided.

**2.0 Product description.** The RM shall be a relay module that accepts electrical impulses from contact closure modules or traffic controllers and uses them to open and close the switch on the coil side of the device.

**3.0 Physical.** The RM shall not exceed 0.08 lbs. (36 g) in weight.

The RM shall not exceed 3.1 in. x 0.2 in. x 3.7 in. (8 cm x 0.6 cm x 9.4 cm) in its physical dimensions.

The RM shall operate in the temperature range of -4°F to 140°F (-20°C to 60°C).

**4.0 Mounting.** The RM shall mount onto a DIN rail.

**5.0 Connections.** The RM shall have two screw terminals or spring cage terminals (depending on the model) on the coil side for wiring in from the contact closure card or controller and out to ground. The contact side of the RM shall have three screw terminals or spring cage terminals (depending on the model) for wiring to a load or loads and a power supply.

**6.0 Monitoring feature.** The RM shall feature an LED for monitoring purposes; this LED shall illuminate when the RM is receiving power into its coil side.

**7.0 Replaceability.** The main relay portion shall be able to be removed from the base, allowing for the replacement of just that portion in case of damage or failure.

**8.0 Coil side.** The RM's coil side shall accept 24 VDC.

The RM's coil side's contact type shall be SPDT (single pole, double throw).

The RM's coil side shall accept a current of 7 mA.

The RM's coil side shall have a limiting continuous current of 6 A.

The RM's coil side's typical response time shall be 5 ms.

The RM's coil side's contact material shall be a silver and tin oxide (AgSnO).

The RM's coil side shall have a typical release time of 2.5 ms.

The RM's coil side shall have a maximum switching voltage of 250 VAC/VDC.

The RM's coil side shall have a coil resistance of 3390 Ohm  $\pm 10\%$  (at 68°F/20°C).

**9.0 Contact side.** The RM's contact side's contact type shall be SPDT (single pole, double throw).

The RM's contact side's contact material shall be a silver and tin oxide (AgSnO).

The RM's contact side shall have a switching voltage of 250 VAC/VDC.

The RM's contact side shall have a minimum switching current of 10 mA.

The RM's contact side shall have a limiting continuous current of 6 A.

The RM's contact side shall have the following interrupting rating (ohmic load) max.:

- 140 W (for 24 V DC)
- 23 W (for 110 V DC)

- 40 W (for 220 V DC)
- 1500 VA (for 250 V AC)

**10.0 Testing.** Before shipping, each RM shall have passed a manufacturer's test.

**11.0 Extended support.** Extended support options shall be available. Contact the manufacturer's representative for more information.

**12.0 Warranty.** The RM shall be warranted to be free from material and workmanship defects for a period of one year from date of shipment.