



ELECTRONIC DELAY TIMER

SAFETY PRECAUTIONS

⚠ WARNING : Incorrect handling of the device may result in death or serious injury.

⚠ CAUTION : Incorrect handling of the device may result in minor injury or physical damage

⚠ WARNING

1. Turn off the upstream circuit breaker before installation or service to prevent electric shocks and burns due to short circuit.
2. Do not touch any live naked terminals. It makes an electric shock.

⚠ CAUTION

1. Install the product assuming a space of at least that which is specified in the instruction manual. Failure to do so may result in fire and scorching.
2. Installation, maintenance and inspection of the product should be performed by qualified engineers special knowledge. Failure to do so may result in fire and scorching.
3. Treat the product as industrial waste when discarding.

LG Industrial Systems
www.lgis.com 7961 1621 XXA

Head office
● Tel : (82)2-3777-4870
● Fax : (82)2-3777-4879

안전상의 주의

⚠ 위험 : 지시사항을 위반한 경우에 사망 또는 중상을 입게 됩니다.

⚠ 주의 : 지시사항을 위반한 경우에 가벼운 상해를 입거나 물적 손상을 입게 됩니다.

위험

1. 제품의 설치 전 반드시 상위 차단기를 OFF 시키십시오. 감전으로 심각한 상태나 사망의 원인이 됩니다.
2. 단차 노출부에 접촉하지 않도록 주의하여 주십시오. 감전, 단락 사고의 원인이 됩니다.

주의

1. 제품의 설치 전 본 사용설명서를 반드시 읽고 설명에 따라 설치하여 주십시오. 잘못된 설치로 인한 오동작 및 사고가 발생합니다.
2. 제품 설치 및 보수시 전은 자각자에 의해 설치하여 주십시오. 잘못된 설치로 인한 오동작 및 사고가 발생합니다.
3. 제품 폐기시 산업 폐기물로 처리하여 주십시오.

Instruction manual

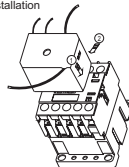
Unused wire should be insulated with isolation material. Please, check the supply voltage and wiring carefully. Please, do not use the product without checking the voltage and wiring. Please, check the voltage and wiring carefully.

ELECTRONIC DELAY TIMER

Performance

	Characteristic	Supply voltage	Delay time
AT-12M	On delay	AC / DC 24 - 48V	1 - 30S
		AC 110 - 220V	1 - 30S
	Off delay	AC / DC 24 - 48V	1 - 30S
		AC 110 - 220V	1 - 30S

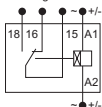
Installation



- ① Please, put the AT-12M in the guide wedge.
- ② Please, pull the AT-12M along the arrow direction.

ELECTRONIC DELAY TIMER

Wiring of AT-12M ON delay Timer



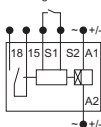
AC / DC 24 - 48V
AC 110 - 220V

1. Check applied voltage
2. Check tightening torque.

Characteristic

- Power interruption after timeout finished.
 - Supply voltage
 - Relay (15-18)
 - Power interruption before timeout finished.
 - Supply voltage
 - Relay (15-18)
- : De-Energized ■ : Energized

Wiring of AT-12M OFF delay Timer



AC / DC 24 - 48V
AC 110 - 220V

1. Check applied voltage
2. Check tightening torque.

Warning) You should not supply power between S1 and S2. If you Should do, it becomes breakdown.

In the case of extending S1, S2 cables, You should use shield cables to S1 and S2 wires.

주 의) S1과 S2 사이에 전원을 인가하지 마십시오. 전원을 S1과 S2 사이에 인가하면 내부 소자가 소손됩니다. S1, S2 전선을 연장 할 때 쉴드 전선을 사용하십시오.

ELECTRONIC DELAY TIMER

Characteristic

- Power interruption after timeout finished.
 - A1 - A2
 - S1 - S2
 - Relay (15-18)
 - Turn on switch(S1-S2) before timeout finished.
 - A1 - A2
 - S1 - S2
 - Relay (15-18)
 - Power interruption When operating timer
 - Supply voltage
 - S1 - S2
 - OFF delay
- : De-Energized ■ : Energized

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⚠ 위험

1. 제품의 설치 전 반드시 상위 차단기를 OFF 시키십시오. 감전으로 심각한 상해나 사망의 원인이 됩니다.
2. 단자 노출부에 접촉하지 않도록 주의하여 주십시오. 감전, 단락 사고의 원인이 됩니다.

⚠ 주의

1. 제품의 설치 전 반드시 사용설명서를 반드시 읽고 설명에 따라 설치하여 주십시오. 잘못된 설치로 인한 오동작 및 사고가 발생 됩니다.
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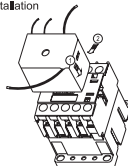
Instruction manual

Unused wire should be insulated with insulating material.
Please, check the supply voltage and wiring
사용하지 않는 전선은 절연시켜 주십시오.
정확 전압과 배선을 확인하여 주십시오.

Performance

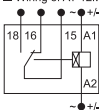
	Characteristic	Supply voltage	Delay time
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Installation



- ① Please, put the AT-12M in the guide wedge.
- ② Please, pull the AT-12M along the arrow direction.

■ Wiring of AT-12M ON delay Timer

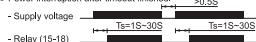


AC / DC 24 - 48V
AC 110 - 220V

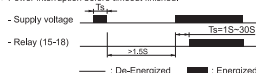
1. Check applied voltage
2. Check tightening torque.

■ Characteristic

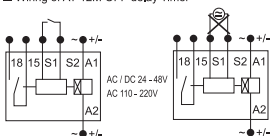
- Power interruption after timeout finished.



- Power interruption before timeout finished.



■ Wiring of AT-12M OFF delay Timer



AC / DC 24 - 48V
AC 110 - 220V

1. Check applied voltage
2. Check tightening torque.

Warning) You should not supply power between S1 and S2. If you Should do, it becomes breakdown.

In the case of extending S1, S2 cables, You should use shield cables to S1 and S2 wires.

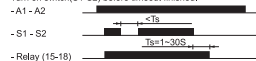
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■ Characteristic

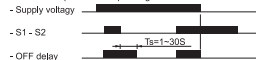
- Power interruption after timeout finished.



- Turn on switch(S1-S2) before timeout finished.



- Power interruption When operating timer



— : De-Energized ■ : Energized

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1. 제품을 설치 하기 전 본 사용 설명서를 반드시 읽고 설명에 따라 설치 하여 주십시오. 잘못된 설치로 인한 오동작 및 사고가 발생 됩니다.
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INSTRUCTION MANUAL

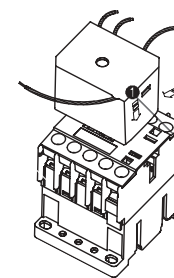
Unused wire should be insulated with isolation material.
Please, check the supply voltage and wiring.

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PERFORMANCE

	Characteristic	Supply voltage	Delay time
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INSTALLATION



Please, put the AT-12M in the guide wedge.

Please, pull the AT-12M along the arrow direction.

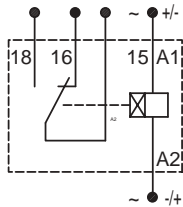


Setting a time as Ts=1s



Setting a time as Ts=30s

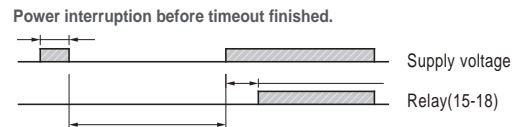
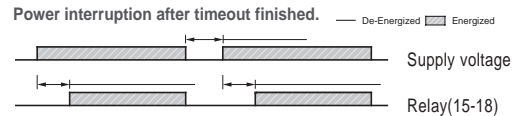
WIRING OF AT-12M ON DELAY TIMER



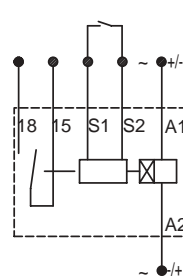
AC/DC 24-48V
AC110-220V

1. Check applied voltage.
2. Check tightening torque.

CHARACTERISTIC



WIRING OF AT-12M OFF DELAY TIMER



AC/DC 24-48V
AC110-220V

1. Check applied voltage.
2. Check tightening torque.



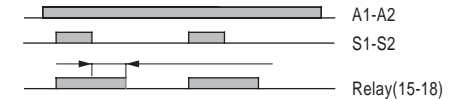
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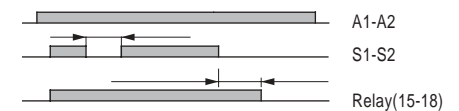
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In the case of extending S1, S2 cables, You should use shield cables to S1and S2 wires.

CHARACTERISTIC

Power interruption after timeout finished.



Turn on switch(s1-s2) before timeout finished.



Power interruption When operating timer.

