

Conductive Level Controller

K8DT-LS

Ideal for water level control.

Sensitivity adjustment and timer for easy usage.

- Sensitivity adjustment from 10 k to 100 k Ω .
- Enables easy onsite adjustment.
ON-delay timer from 0.1 to 10 s.
Ideal as countermeasure for waves on liquid surfaces.
- Width of 17.5 mm to reduce space required in panels.
- Push-In Plus Terminal that reduce wiring work.
The use of cage clamps enables wiring with bare stranded wires.
Double-insertion holes for crossover wiring (all terminals).
- UL listed for easy shipping to North America.
- Models with transistor outputs added for low contact wear.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.



Refer to *Safety Precautions* on page 7.

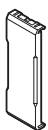
Ordering Information

Conductive Level Controller

Power supply voltage	Output	Model
24 VAC/DC	Relay: SPDT contact output	K8DT-LS1CD
	Transistor	K8DT-LS1TD
100 to 240 VAC	Relay: SPDT contact output	K8DT-LS1CA
	Transistor	K8DT-LS1TA

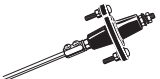
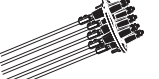
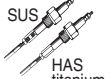
Options (Order Separately)

Front Cover

Appearance	Model
	Y92A-D1A

Accessories (Order Separately)

Electrode Holders/Underwater Electrodes

Application	For general-purpose use, such as water supply lines	For areas with limited space	For liquids with low resistance	When mounting strength is required	For resistance to high-temperature or high-pressure liquids	For resistance against corrosion	For installation at long distances from the liquid level
Model	PS-3S/-4S/-5S	PS-31 SUS304, 300 mm	BF-1	BF-3/-5	BS-1	BS-1T	PH-1/-2
Appearance							

Electrode Rods

Electrode Rods are sets with the connection nuts, lock nuts, and tightening screws.



Application	Purified water service, industrial water, and sewage	Purified water service, industrial water, sewage, and weak alkaline solutions
Model	F03-60 SUS304	F03-60 SUS316

Others

Item	Model
Protective Cover (Electrode Holders for the PS or BF Series) 	F03-11
Mounting Piece (Electrode Holder for the PS Series) 	F03-12
Separator (to prevent contact between electrodes)   	F03-14 1P (one pole) F03-14 3P (three poles) F03-14 5P (five poles)

Ratings and Specifications

Ratings

Power supply voltage	K8DT-LS1□D: 24 VAC 50/60 Hz, 24 VDC K8DT-LS1□A: 100 to 240 VAC 50/60 Hz
Voltage across electrodes	5 V p-p (Approx. 20 Hz)
Power consumption	24 VAC/DC: 1.8 VA/1 W max. 100 to 240 VAC: 2.5 VA max.
Rated insulation voltage	253 VAC
Operating resistance	10 to 100 kΩ (variable)
Reset resistance	250 kΩ max.
Response time	Approx. 0.1 to 10 s (variable)
Length of cable	100 m max. (fully insulated 3-core 0.75-mm ² cabtyre cable, 600 V)
Indicators	power PWR: Green, output (OUT): Yellow
Output form	Relay Output: SPDT contact Transistor Output: 1
Output contact ratings	Rated load 5 A at 250 VAC (Resistive load) 5 A at 30 VDC (Resistive load) 1 A at 250 VAC (Inductive load) 0.2 A at 48 VDC (Inductive load) Minimum load: 5 VDC, 10 mA (reference values) Mechanical life: 10 million operations min. Electrical life: 5 A at 250 VAC or 30 VDC: 50,000 operations 3 A at 250 VAC or 30 VDC: 100,000 operations
Transistor output ratings	Rated voltage: 24 VDC (maximum voltage: 26.4 VDC) Maximum current: 50 mA DC
Ambient operating temperature	−20 to 60°C (with no condensation or icing)
Storage temperature	−25 to 65°C (with no condensation or icing)
Ambient humidity	25% to 85% RH (with no condensation)
Storage humidity	25% to 85% RH (with no condensation)
Altitude	2,000 m max.
Applicable wires	Stranded wires, solid wires, or ferrules
Applicable wire size	0.25 to 1.5 mm ² (AWG24 to AWG16)
Wire insertion force	8 N max. for AWG20 wire
Screwdriver insertion force	15 N
Wire stripping length	8 mm
Ferrule length	8 mm
Recommended flat-blade screwdriver	XW4Z-00B (Omron) SZF 0.4 × 2.5 (Phoenix Contact) 210-719 (Wago) SDI 0.4 × 2.5 × 75 (Weidmuller)
Current capacity	10 A (per pole)
Number of insertions	50 times
Case color	N1.5
Case material	PC, UL 94 V-0
Weight	Approx. 100 g
Mounting	Mounts to DIN Track, or screw mounting
Dimensions	17.5 × 90 × 90 mm (W×D×H)

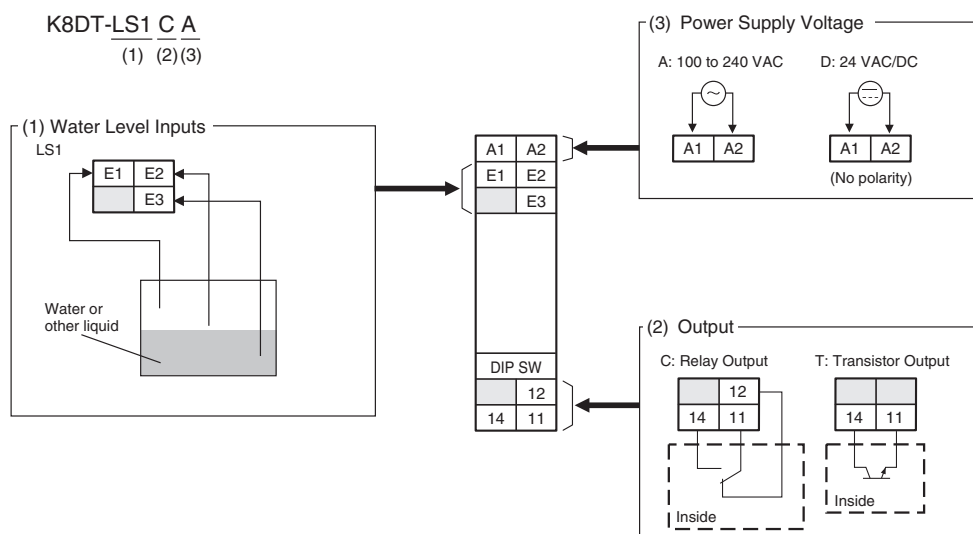
Specifications

Operating voltage range		85% to 110% of rated voltage
Applicable standards	Approved standards	EN 61010-1 Installation environment: pollution level 2, Overvoltage category II
	EMC	EN 61326-1 *1
	Safety standards	UL 61010-1 (Listing) Korean Radio Waves Act (Act 10564), CCC (GB/T 14048.5) *2
Insulation resistance		20 MΩ min. Between all external terminals and the case Between all power supply terminals and all input terminals Between all power supply terminals and all output terminals Between all input terminals and all output terminals
Dielectric strength		3,000 VAC for 1 min Between all external terminals and the case Between all power supply terminals and all input terminals Between all power supply terminals and all output terminals Between all input terminals and all output terminals
Impulse withstand voltage		6 kV (between live terminals and exposed, non-charged metal parts)
Noise immunity		Square-wave noise of 1-μs/100-ns pulse width with 1-ns rise time 100 to 240 VAC: 1,500 V power supply terminal common/normal mode 24 VAC: 1,500 V power supply terminal common/normal mode 24 VDC: 480 V power supply terminal common
Vibration resistance		Frequency: 10 to 55 Hz, 0.35-mm single amplitude 10 sweeps of 5 min each in X, Y, and Z directions
Shock resistance		100 m/s ² , 3 times each in 6 directions along 3 axes
Degree of protection		Terminals: IP20

*1. Industrial Electromagnetic Environment (EN/IEC 61326-1, Table 2)

*2. K8DT-LS1TD is not applied.

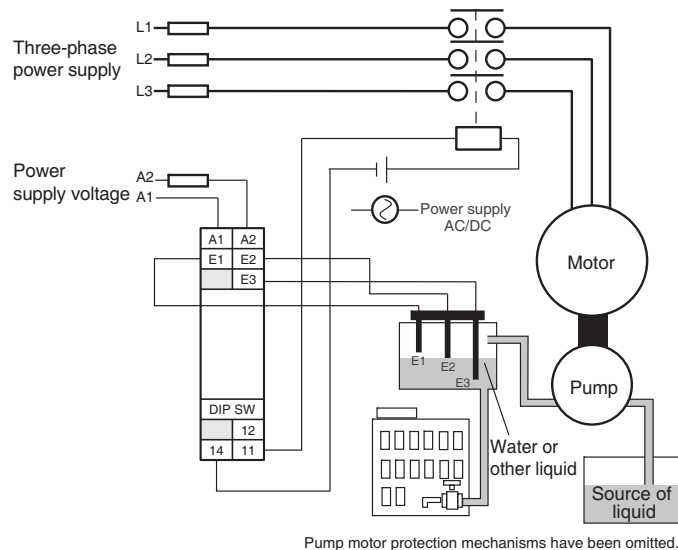
Terminal Diagram



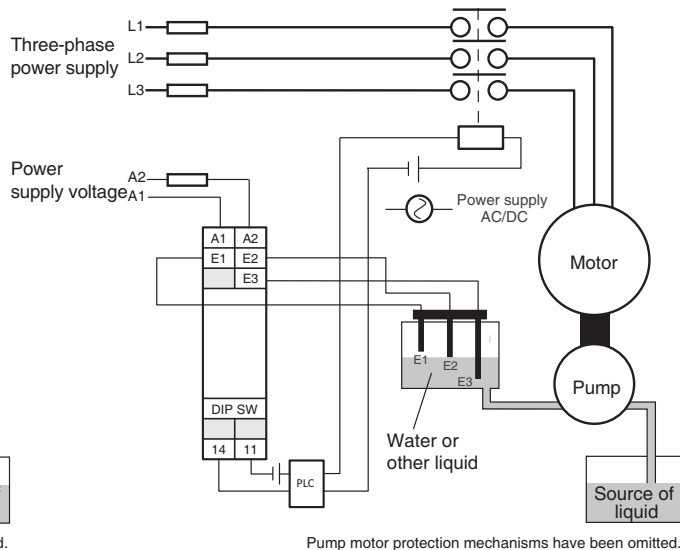
Note: Do not connect anything to terminals that are shaded in gray.

Wiring Example

Relay Output, Automatic Water Supply Operation

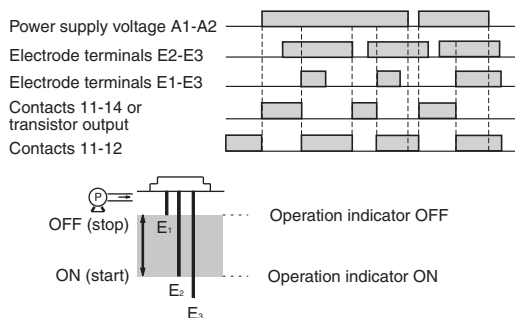


Transistor Output, Automatic Water Discharge Operation



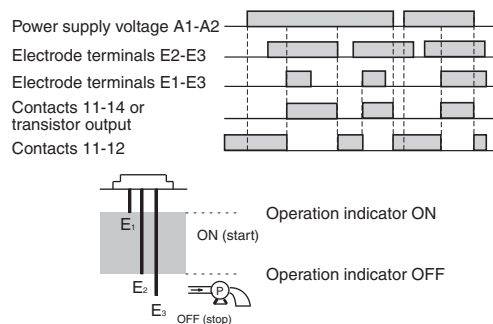
Timing Charts

DIP Switch Pin 1: OFF (Automatic Liquid Supply Operation)



- When the liquid level falls to E2 (indicator turns ON), the pump starts.
When the liquid level rises above E1 (indicator turns OFF), the pump stops.

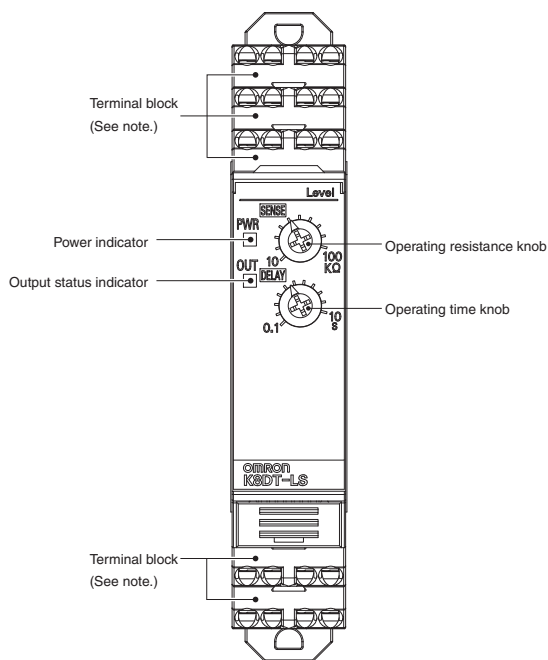
DIP Switch Pin 1: ON (Automatic Liquid Discharge Operation)



- When the liquid level reaches E1 (indicator turns ON), the pump starts. When the liquid level falls below E2 (indicator turns OFF), the pump stops.

Nomenclature

Front Panel



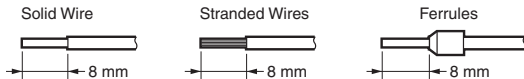
Indicators

Item	Description
Power indicator (PWR: Green)	Lit when power is being supplied.
Output status indicator (Output: Yellow)	Lights for output.

Setting Knobs

Item	Description
Operating resistance knob	Used to set the resistance to 10 k to 100 kΩ.
Operating time knob	Used to set the operating time to 0.1 to 10 s.

Note: Use solid wires, stranded wires, or ferrules to connect to the terminals.
 To maintain the withstand voltage after connecting the terminals, insert 8 mm of exposed conductor into the terminal.



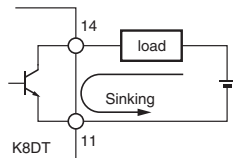
Operation Method

Connections

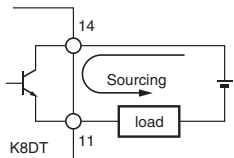
Outputs

For a relay output, the SPDT contacts are output on terminals 11, 12, and 14. For a transistor output, the output is on terminals 11 and 14. The internal circuit of the transistor output is NPN, but application is possible for either a sinking or sourcing output.

In the case of sinking output applications



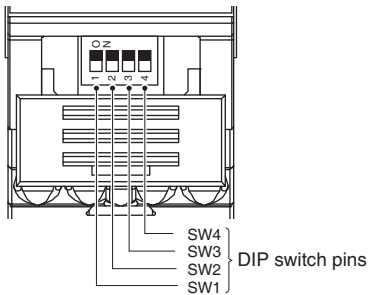
In the case of sourcing output applications



DIP Switch Settings

The operating mode is set using the DIP switch located on the front of the Unit.
 K8DT-LS does not use SW2, SW3 and SW4.

Note: Open the DIP switch cover to set the DIP switch.
 Keep the DIP switch cover closed while the power supply to the Relay is ON.



DIP Switch Function

Pin	ON ○ ↑ OFF ● ↓	1	2	3	4
Operating mode	Automatic liquid discharge operation	○	Not used.	Not used.	Not used.
	Automatic liquid supply operation	●	Not used.	Not used.	Not used.

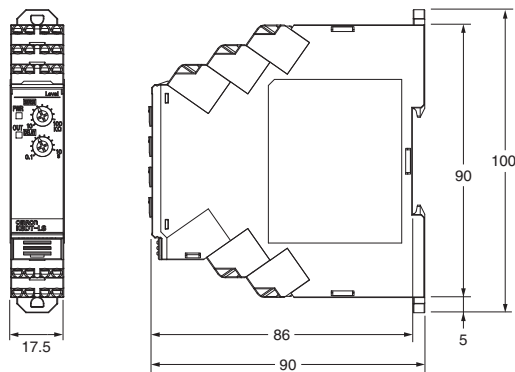
Note: All pins are set to OFF by default.

K8DT-LS

Dimensions

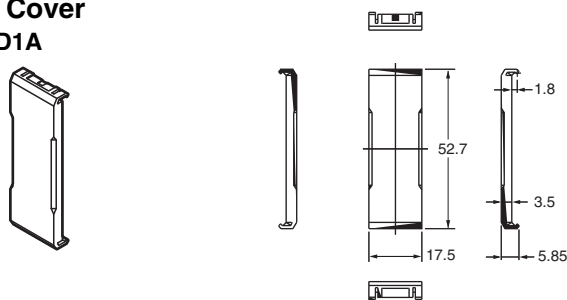
(Unit: mm)

Conductive Level Controller
K8DT-LS



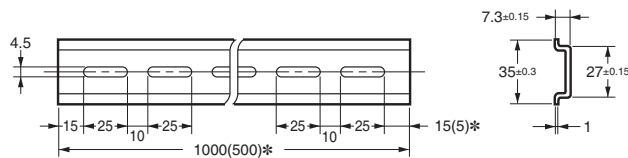
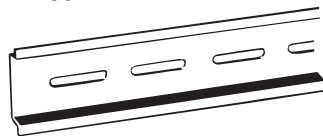
Options (Order Separately)

Front Cover
Y92A-D1A



Optional Parts for DIN Track Mounting

DIN Tracks
PFP-100N
PFP-50N



* Dimensions in parentheses are for the PFP-50N.

Safety Precautions

Be sure to read the precautions for all models in the website at the following URL: <http://www.ia.omron.com/>.

Warning Indications

 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.
Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.

Meaning of Product Safety Symbols

	Used to warn of the risk of electric shock under specific conditions.
	Used for general prohibitions for which there is no specific symbol.
	Used to indicate prohibition when there is a risk of minor injury from electrical shock or other source if the product is disassembled.
	Used for general mandatory action precautions for which there is no specified symbol.

CAUTION

Doing so may occasionally result in minor injury due to electric shock. Do not touch the Relay while the power supply is ON, except for the adjustment knob.



There is a risk of minor electrical shock, fire, or device failure. Do not allow any pieces of metal, conductors, or cutting chips that occur during the installation process to enter the product.



Explosions may cause minor injuries. Do not use the product in locations with inflammable or explosive gases.

There is a risk of minor electrical shock, fire, or device failure. Do not disassemble, modify, repair, or touch the inside of the product.



Use of the product beyond its life may result in contact welding or burning. Make sure to consider the actual operating conditions and use the product within its rated load and electrical life count. The life of the output relay varies significantly with the switching capacity and switching conditions.



If the Relay is used with incorrect wiring, fire may occasionally occur, possibly resulting in physical damage. Check the wiring for mistakes before you turn ON the power supply.



If the Relay fails, monitoring and alarm outputs may fail to operate. This may result in physical damage to the facilities, equipment, or other devices that are connected to it. To reduce this risk, inspect the Relay regularly. To maintain safety in the event of malfunction of the Relay, take appropriate safety measures, such as installing a monitoring device on a separate line.



If the wire insertion length is insufficient, fire may occasionally occur, possibly resulting in physical damage. Insert the wires all the way to the back.



The terminal block may be damaged if you insert a flat-blade screwdriver in the release hole with excessive force. Insert the flat-blade screwdriver into the release holes with a force of 15 N or less.



Precautions for Safe Use

- Do not use or store the product in the following locations.
 - Locations subject to water, or oil
 - Outdoor locations or under direct sunlight
 - Locations subject to dust or corrosive gases (sulfurizing gases, ammonia gases, etc.)
 - Locations subject to rapid temperature changes
 - Locations prone to icing and dew condensation
 - Locations subject to vibration and large shocks
 - Locations subject to wind and rain
 - Locations subject to static electricity or noise
 - Locations subject to insects or small animals
- Use and store the product in a location where the ambient temperature and humidity are within the specified ranges. If applicable, provide forced cooling.
- Check terminal polarity when wiring and wire all connections correctly. The power supply terminals do not have polarity.
- Do not wire the input and output terminals incorrectly.
- Make sure the power supply voltage and loads are within the specifications and ratings for the product.
- Make sure the ferrule terminals for wiring are of the specified size.
- The stripping length is 8 mm. Insert the wires all the way to the back.
- Do not connect anything to terminals that are not being used.
- Use a power supply that will reach the rated voltage within 1 second after the power is turned ON.
- Keep wiring separate from high voltages and power lines that draw large currents. Do not place product wiring in parallel with or in the same path as high-voltage or high-current lines.
- Do not install the product near equipment that generates high frequencies or surges.
- The product may cause incoming radio wave interference. Do not use the product near radio wave receivers.
- Install an external switch or circuit breaker and label it clearly so that the operator can quickly turn OFF the power supply.
- Make sure the indicators operate correctly. Depending on the application environment, the indicators may deteriorate prematurely and become difficult to see.
- The maximum terminal temperature is 80°C. Use wires with a temperature resistance of at least 80°C.
- Do not use the product if it is accidentally dropped. The internal components may be damaged.
- Be sure you understand the contents of this catalog and handle the product according to the instructions provided.
- Do not install the product in any way that would place a load on it.
- When discarding the product, properly dispose of it as industrial waste.
- When using the product, remember that the power supply terminals carry a high voltage.
- The product must be handled only by trained electrician.
- Prior to operation, check the wiring before you supply power to the product.
- Do not install the product immediately next to heat sources.
- Perform periodic maintenance.
- Do not wire anything to the release holes.
- When you insert a flat-blade screwdriver into a release hole, do not tilt or twist the screwdriver. The terminal block may be damaged.
- Insert a flat-blade screwdriver into the release holes at an angle. The terminal block may be damaged if the screwdriver is inserted straight in.
- Do not allow the flat-blade screwdriver to fall when you are holding it in a release hole.
- Do not bend a wire past its natural bending radius or pull in it with excessive force. Doing so may break the wires.
- Do not insert more than one wire into each terminal insertion hole.

- To prevent wiring materials from smoking or igniting, confirm wire ratings and use the wiring materials given in the following table.

Recommended wire	Stripping length (Ferrules not used)
0.25 to 1.5 mm ² /AWG 24 to 16	8 mm

- Use only the specified wires for wiring.
- When wiring the terminals, allow some leeway in the wire length.
- Make sure that the power supply is turned OFF before you change any DIP switch setting.

Precautions for Correct Use

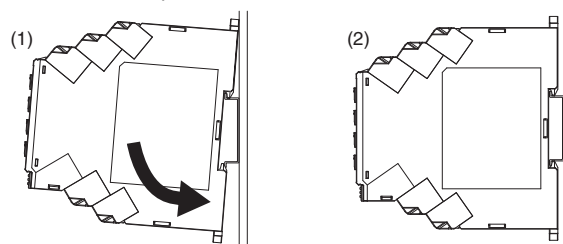
Observe the following operating methods to prevent failure and malfunction.

- Use the power supply voltage, input power, and other power supplies and converters with suitable capacities and rated outputs.
- When cleaning the product, do not use thinners or solvents. Use commercial alcohol.
- If you use stranded wires, make sure that there are no loose wire strands.
- If you wire crossovers and connect terminal blocks in parallel, a large current will flow. Make sure that the current does not exceed 10 A.
- The terminal block may be damaged if the recommended tool is not used. Use the recommended flat-blade screwdriver to operate the release holes.

Correct Mounting Direction, Mounting, and Removing

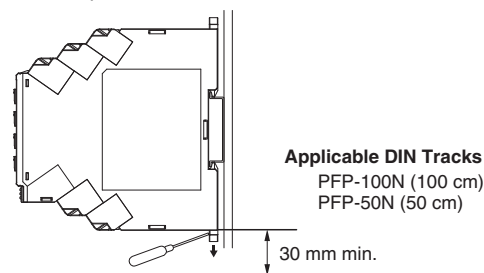
Mounting to DIN Track

To mount the Controller to a DIN Track, hook the Controller onto the DIN Track and press the Controller in the direction of the arrow until you hear it lock into place.



Removing from the DIN Track

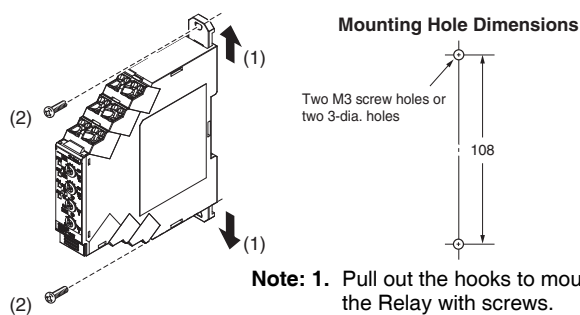
To remove the Controller, insert a screwdriver into the hook on the top or bottom and pull out the hook to release the Controller.



- Leave at least 30 mm of space between the product and other devices to allow easy installation and removal.

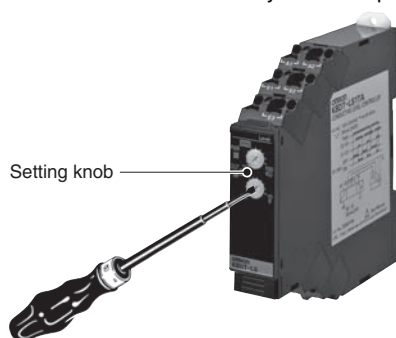
Screw Mounting

1. Pull out the two hooks on the back of the Controller to the outside until you hear them click in place.
2. Insert M3 screws into the hook holes and secure the Controller.



Adjusting the Setting Knobs

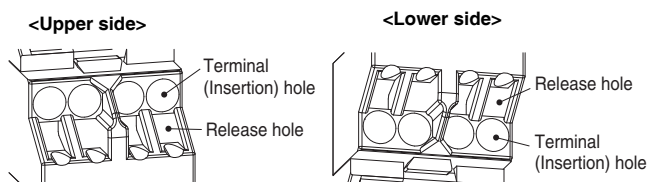
- Use a flat-blade screwdriver to adjust the setting knobs. The knobs have a stopper that prevents them from turning beyond the full right or left position. Do not force a knob beyond these points.



- To reduce the error in the setting knob, always turn the setting knob from the minimum setting toward the maximum setting.

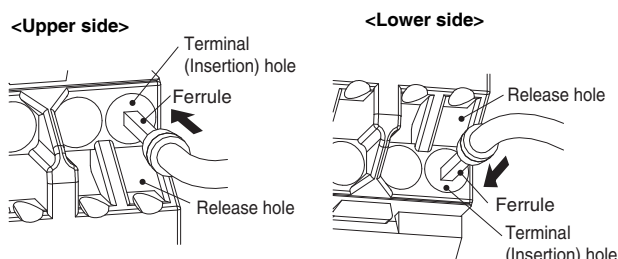
Connecting Wires to the Push-In Plus Terminal Block

Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.



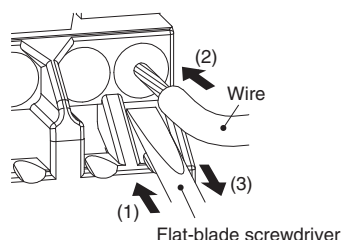
If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

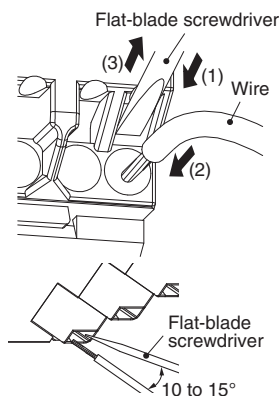
Use the following procedure to connect the wires to the terminal block.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole. The angle should be between 10° and 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until it strikes the terminal block.
3. Remove the flat-blade screwdriver from the release hole.

<Upper side>



<Lower side>



Checking Connections

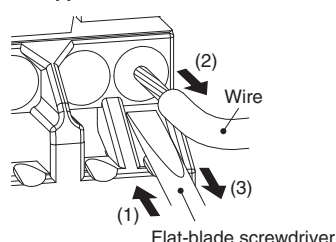
- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- If you use a ferrule with a conductor length of 10 mm, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

Removing Wires from the Push-In Plus Terminal Block

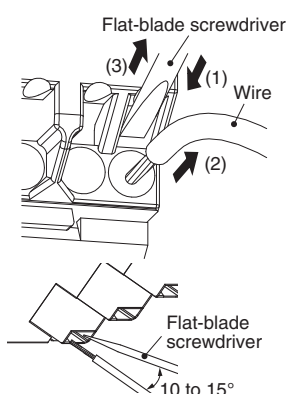
Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
3. Remove the flat-blade screwdriver from the release hole.

<Upper side>



<Lower side>

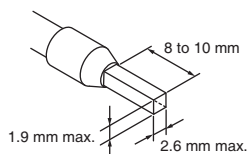


Recommended Ferrules and Crimp Tools

Recommended ferrules

Applicable wire		Ferrule Conductor Length (mm)	Stripping length (mm) (Ferrules used)	Recommended ferrules		
(mm²)	(AWG)			Phoenix Contact product	Weidmuller product	Wago product
0.25	24	8	10	AI 0,25-8	H0.25/12	216-301
		10	12	AI 0,25-10	---	---
0.34	22	8	10	AI 0,34-8	H0.34/12	216-302
		10	12	AI 0,34-10	---	---
0.5	20	8	10	AI 0,5-8	H0.5/14	216-201
		10	12	AI 0,5-10	H0.5/16	216-241
0.75	18	8	10	AI 0,75-8	H0.75/14	216-202
		10	12	AI 0,75-10	H0.75/16	216-242
1/1.25	18/17	8	10	AI 1-8	H1.0/14	216-203
		10	12	AI 1-10	H1.0/16	216-243
1.25/1.5	17/16	8	10	AI 1,5-8	H1.5/14	216-204
		10	12	AI 1,5-10	H1.5/16	216-244
Recommended crimp tool				CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4

- Note:**
1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
 2. Make sure that the ferrule processing dimensions conform to the following figures.

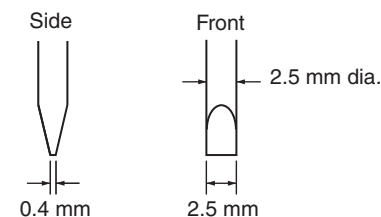


Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires.

Use the following flat-blade screwdriver.

The following table shows manufacturers and models as of 2015/Dec.



Model	Manufacturer
ESD 0,40X2,5	Wera
SZS 0,4X2,5 SZF 0-0,4X2,5 *	Phoenix Contact
0.4X2.5X75 302	Wiha
AEF.2,5X75	Facom
210-719	Wago
SDI 0.4X2.5X75	Weidmuller

* OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0,4X2,5 (manufactured by Phoenix Contact).

EN/IEC Standard Compliance

- Refer to the contents of this datasheet for cable selection and other conditions for compliance with EMC standards.

Precaution on EN Standard Compliance

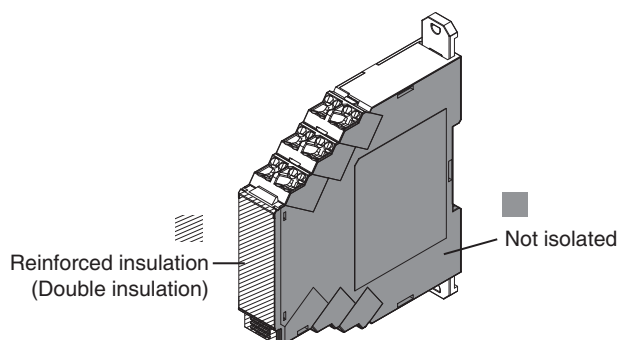
The K8DT complies with EN 61010-1 when it is built into a panel, but observe the following handling methods to ensure compliance with the requirements of this standard.

Wiring

Overvoltage category II

Pollution degree 2

- Open-frame Device
- If basic, double, or reinforced insulation is required, use the basic, double, or reinforced insulation defined in IEC 60664 that is suitable for the maximum applied voltage for the clearance, solid insulation, and other factors.
- There is basic insulation between the power supply terminals and input terminals.
- There is basic insulation between the power supply terminals and output terminals.
- There is basic insulation between the input terminals and output terminals.
- Operating section must have reinforced or double insulation.
- The sides of the case are not isolated.
- Connect the output contacts (contacts with different polarity) so that they reach the same potential.



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OMRON Corporation Industrial Automation Company
Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.

Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands
Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD.

No. 438A Alexandra Road # 05-05/08 (Lobby 2),
Alexandra Technopark,
Singapore 119967
Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

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