⚠ Safety Warning

1. The product must not be installed in environments containing flammable, explosinve gases or where there are moisture and condensation. Do not operate or handle the product with wet hands.
2. Do not touch any of the conductive parts of the product while it is in operations.
3. Ensure the power is turn off before installing, maintaining or servicing the product.
4. Children must not be allowed to handle the product or play with the packaging.
5. Allow sufficient space and maintaining a safe distance around the product when installing.
6. Do not install in environments where gas media can corrode metals and damage the insulation.
7. When installing, use designated wiring and connect to a power supply and load that meets the specific requirement.
8. To avoid accidents, follow the installation and mounting instructions in the manual carefully.
9. After uppacking, inspect the product for any damages and verify all necessary parts are uncluded.
10. Prevent foreign objects or particles from entering the product.
11. During cable termination, ensure the wires is securely fasterned and tightened to the specified torque requirement.
12. This product does not provide protection against electric shock and power imbalance.
13. After unpacking, please inspect the product for any damage and verify that all items are complete.

1 Main purpose and scope of application

The AX-B8R auxiliary contact complies with the IEC/EN 60947-5-1 standard and is suitable for circuits with a rated thermal current of up to 6 A, AC (50 Hz or 60 Hz), rated voltage up to 415 V, or DC rated voltage up to 130 V. It is designed to be assembled with the NB8-125R series circuit breaker and is used for remote on-off signal indication.

2 Normal use, installation, transportation, and storage conditions

2.1 Normal usage conditions

The operating ambient air temperature is -35℃ to+70 ℃, ensure the average temperature value within 24 hours does not exceed+35 ℃.

When operating at the maximum temperature is+40 ℃, ensure the relative humidity of the air does not exceed 50%. Higher relative humidity is allowed when operating at lower temperatures (such as reaching 90% at+20 ℃). Special measures should be taken for occasional condensation caused by temperature changes.

The installation site altitude should not exceed 2000 meters.

Pollution level: Level 3

2.2 Installation conditions

Following the safety guidelines, the installation site should be shielded from rain, snow and free from water vapour. The product should be installed in a stable location without significant vibration, shock and environment free from conductive dust.

2.3 Transportation and storage conditions

The applicable temperature range for transportation and storage is between -35 ℃ and+70 ℃. The storage area should be well ventilated, dry, and not affected by rain, snow, or direct sunlight.

3 Wiring diagram

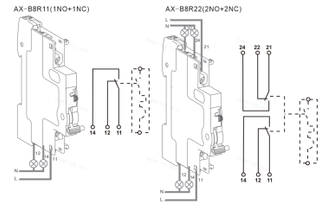


Figure 1 Wiring Diagram

4 Dimensions (mm)

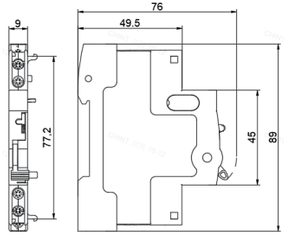


Figure 2 Dimensions

5 Installation, commission, and operation

5.1 Before installation and use, check if the contacts can switch reliably. Push and release the test button, and you will hear a "click" sound while the contacts switch.

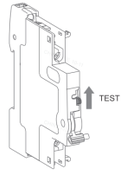


Figure 3 Testing the changeover contact

5.2 Mounting of auxiliary contact

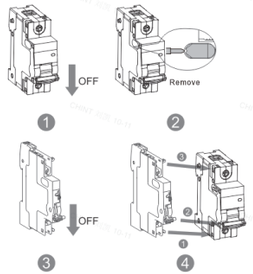


Figure 4 Assembly diagram

5.3 Dismounting of auxiliary contact

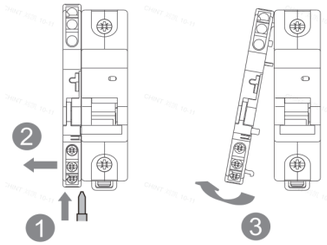


Figure 5 Dismantling diagram

5.4 Copper wire connection, wire selection, and torque requirement

	Z1
7 mm (mm²)	18-14 AWG (0.75-2.5)
(Nm)	1

Figure 6 Wiring requirements

5.5 Possible configuration of NB8 electrical auxiliaries

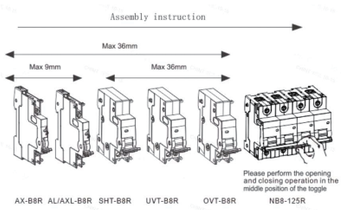


Figure 7 Assembly and usage requirements

6 Product maintenance

When the auxiliary contact shows abnormal indication status, the circuit fault should be eliminated first, and then manually closed to restore power supply.

7 Fault Analysis and Troubleshooting

Table 1 Fault analysis and troubleshooting

Fault phenomenon	Analysis	Rectification
Handle cannot close	The seal sticker of the circuit breaker has not been removed	Remove the seal sticker at the joint position of the circuit breaker
	Incorrect operating position	Move the circuit breaker handle to the center position
	Malfunction of the operating mechanism	Replace product
No power supply	Wire stripping too short	Re-strip the wire
	Connection screw not tightened or is loose	Tighten the connection screws

8 Warranty period and environmental protection, and other legal regulations

8.1 Warranty period

Under standard storage and transporation conditions, provided product itself and remain undamaged, the warranty period is 36 months from the date of manufacture.

The following instances are excluded from warranty coverage;

1）Damage resulting from improper use, storage or maintenance by user.

2）Damage resulting from repairs or modifications by unauthorized institutions, personnel, or by users themselves.

3）The product has surpassed the warranty period.

4）Damage caused by force majeure events

8.2 Environmental protection

To support environmental protection, please ensure proper disposal of this product or its components as industry waste when scrapping. Alternatively, they may be sent to a recycling facility for sorting, disassembly, and recycling, in compliance to international regulations and local regulations.

CHINT

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AX-B8R

Auxiliary contact

IEC/EN 60947-5-1

Check 12

Test date: Please see The packing

ZHEJIANG CHINT ELECTRICS CO.,LTD.

CHINT ELECTRICS

AX-B8R
Auxiliary contact
User Instruction

Zhejiang Chint Electrics Co.,Ltd.
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E-mail: global-sales@chint.com
Website: http://en.chint.com

NO:2025.01

CHINT ELECTRICS

AX-B8R
Auxiliary contact

User Instruction

Standard: IEC/EN 60947-5-1

⚠ Safety Warning

1. Installing this product in an environment with flammable and explosive gases or damp condensation is strictly prohibited. Additionally, avoid handling the product with wet hands.
2. Do not touch the conductive part of the product while it is energized.
3. When installing, servicing and maintaining the product, ensure that the power is disconnected.
4. Do not allow children to play with the product or packaging.
5. Do allow sufficient clearance to maintain a safety distance around the product.
6. Do not install product in a corrosive environment where metal parts can get oxidized and insulation compromised.
7. When installing the product, do select the correct size of cables that match the load specifications.
8. To avoid any accidents, please follow the installation recommendations in this manual.
9. After unpacking, visually check the product for any damages (due to handling) to ensure it's integrity before use.
10. Foreign objects should be prevented from falling into the product.

1 Main purpose and scope of application

The SHT-B8R shunt release complies with IEC/EN 60947-1 and IEC/EN 60947-5-1 standards and can be used in AC (50 Hz or 60 Hz) power supply with rated voltage up to 415 V or DC rated voltage up to 130 V. It is designed to be assembled with a NB8-125R series circuit breakers and serves as a remote tripping device for the circuit breaker.

2 Operation, installation, transportation, and storage

2.1 Operation conditions

The ambient air temperature is -35 ℃ to +70 ℃, and the average temperature value within 24 hours does not exceed +35 ℃.

When operating at maximum temperature is +40 ℃, ensure the relative humidity of the air does not exceed 50%. Higher relative humidity is allowed when operating at lower temperatures (such as reaching 90% at+20 ℃). Special measures should be taken for occasional condensation caused by temperature changes.

The altitude of the installation site shall not exceed 2000m.

Pollution level: Level 3

2.2 Installation conditions

Following the safety guidelines, the installation site should be shielded from rain, snow and free from water vapour. The product should be installed in a stable location without

significant vibration, shock and environment free from conductive dust.

2.3 Transportation and storage conditions

The applicable temperature range for transportation and storage is between -35 ℃ and +70 ℃. The storage area should be well ventilated, dry, and not affected by rain, snow, or direct sunlight.

3 Wiring diagram

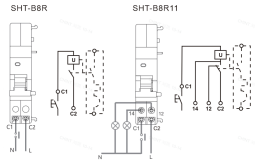


Figure 1 Wiring Diagram

4 Dimensions (mm)

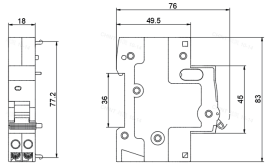


Figure 2 Dimensions

5 Installation, debugging, and operation

5.1 Product assembly diagram.

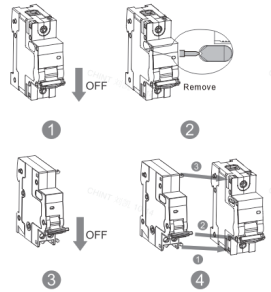


Figure 3 Assembly diagram

5.2 Dismantling diagram

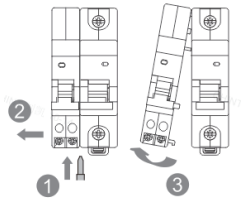


Figure 4 Dismantling diagram

5.3 Copper wire connection, wire selection, and torque requirement

	Z1
7 mm s (mm²)	18-14 AWG (0.75-2.5)
(Nm)	1

Figure 5 Wiring requirements

Note: Check that the wiring is correct and properly secured, and verify the proper operation of the handle before powering on the device

5.4 Possible configuration of NB8 electrical auxiliaries

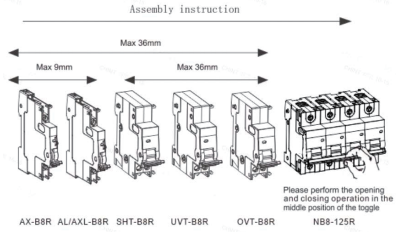


Figure 6 Assembly and usage requirements

6 Maintenance

In the event of a malfunction remote control operation, isolate the shunt trip release from the control circuitry and troubleshoot for any possible control loop faults. After ensuring the safety of the circuit, manually close the circuit breaker and perform a remote control operation the disconnection of the line.

7 Fault analysis and troubleshooting

Table 1 Fault analysis and troubleshooting

Fault description	Analysis	Rectification
The handle cannot be closed	The sealing tape of the circuit breaker has not been removed	Remove the sealing tape at the joint position of the circuit breaker
	Incorrect operating position	Operate the middle position of the circuit breaker handle
	Operating mechanism malfunction	Replace product
No power supply	The stripping length of the wiring lead is too short	Re-strip the wire
	The cable termination is loose or not tightened properly.	Tighten the terminal screws
Unable to trip the breaker remotely	Abnormal control circuit	Check the supply to the shunt release
	Product damage	Replace product

8 Warranty period and environmental protection, and other legal regulations

8.1 Warranty period

Under standard storage and transporation conditions, provided product itself and remain undamaged, the warranty period is 36 months from the date of manufacture.

The following instances are excluded from warranty coverage;

1）Damage resulting from improper use, storage or maintenance by user.

2）Damage resulting from repairs or modifications by unauthorized institutions, personnel, or by users themselves.

3）The product has surpassed the warranty period.

4）Damage caused by force majeure events

8.2 Environmental protection

To support environmental protection, please ensure proper disposal of this product or its components as industry waste when scrapping. Alternatively, they may be sent to a recycling facility for sorting, disassembly, and recycling, in compliance to international regulations and local regulations.

CHINT

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SHT-B8R
Shunt release
IEC/EN 60947-1
IEC/EN 60947-5-1

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Test date: Please see The packing

ZHEJIANG CHINT ELECTRICS CO.,LTD.

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SHT-B8R
Shunt release
User Instruction

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E-mail: global-sales@chint.com
Website: http://en.chint.com

NO:2025.01

CHINT
CHINT ELECTRICS

SHT-B8R
Shunt release

User Instruction

Standard: IEC/EN 60947-1
IEC/EN 60947-5-1

⚠ Safety Warning

1. The following guidelines are essential for safe installation and operation of the product, ensuring both personnel safety and product performance.
2. The product must not be installed in environments containing flammable, explosive gases or where there is moisture and condensation. Do not operate or handle the product with wet hands.
3. Do not touch the conductive parts of the product while it is in operation.
4. Ensure the power is turned off before installing, maintaining, or servicing the product.
5. Children must not be allowed to handle the product or play with the packaging.
6. Allow sufficient space and a safe distance around the product when installing.
7. Do not install in environments where gas media can corrode metal or damage insulation.
8. When installing, use the designated wiring and connect to a power supply and load that meet the specific requirement.
9. To avoid accidents, follow the installation and mounting instructions in this manual carefully.
10. After unpacking, inspect the product for any damages and verify all necessary parts are included.

11. Prevent foreign objects from entering the product.
12. During installation, ensure that wires or comb busbar is securely fastened and tightened to the specificed torque requirement.
13. This product does not provide protection from personnel against electric shock or power imbalnce.
14. After unpacking, please check the product for any damage and count the integrity of the items.

1 Main purpose and scope of application

AXL-B8R alarm auxiliary contact complies with the IEC/EN 60947-5-1 standard and is suitable for circuits with a specified heating current up to 6 A with a rated voltage up to 415 V , 50/60Hz, or DC with a rated voltage up to 130 V. It is assembled with NB8-125R series circuit breakers and is used to indicate the on/off status for remote signaling.

2 Normal use, installation, transportation, and storage conditions

2.1 Normal usage conditions

The ambient air temperature ranges from -35℃ to +70℃ and with a 24-hour average temperature shall not exceed +35℃ .

At a maximum temperature of +40°C, the relative humidity should not exceed 50%. Higher levels are permissable at lower temperatures, such as up to 90% at +20°C. Special precautions should be taken to address

occasional condesation due to temperature fluctuation.

The installation site altitude should not exceed 2000 meters.

Pollution level: Level 3

2.2 Installation conditions

The unit should be installed in a location equipped with adequate protection against rain, snow and free from water vapor, impacts and vibrations.

2.3 Transportation and storage conditions

The permissable temperature range for transporation and storage ranges from -35°C to +70°C. The storage area should be well-ventilated, dry and protected from rain, snow and direct sunlight.

3 Wiring diagram

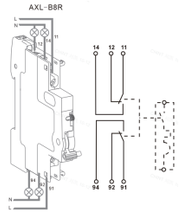


Figure 1 Wiring Diagram

4 Dimensions (mm)

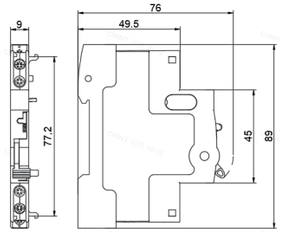


Figure 2 Dimensions

5 Installation, commission, and operation

5.1 Before installing and actual usage, verify toggle switch positions operate without any obstruction. With the auxiliary in closed position, manually move the toggle into open position to reveal the test lever marked"T". Placed a flathead screwdriver onto the lever and with a downward direction to initiate the changeover of the trip contact. Lift the reset lever to return the changeover contact to its initial position.

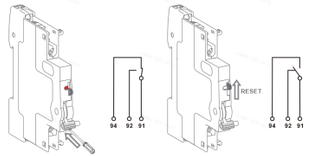


Figure 3 Testing the changeover contact

5.2 Mounting of alarm contact

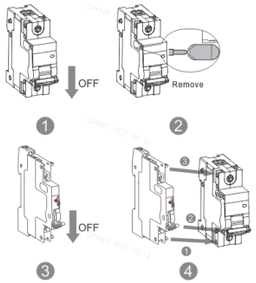


Figure 4 Assembly Diagram

5.3 Dismounting of alarm contact

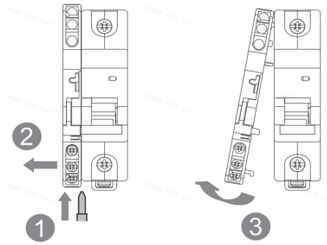


Figure 5 Dismantling diagram

5.4 Copper wire connection, wire selection, and torque requirement

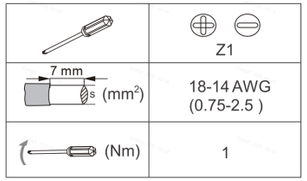


Figure 6 Wiring requirements

5.5 Possible configuration of NB8 electrical auxiliaries

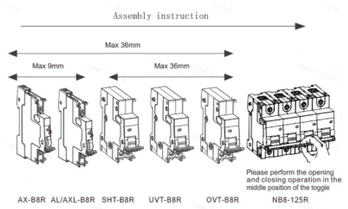


Figure 7 Assembly and usage requirements

6 Product maintenance

If the alarm auxiliary contact shows an abnormal indicator status, check for possible fault(s) and cleared before manually close the breaker restoring power to the circuit.

7 Fault Analysis and Troubleshooting

Table 1 Fault analysis and troubleshooting

Fault description	Possible causes	Possible rectification
Unable to reset trip contact	Incorrect size of flathead screwdriver	Reselect another flathead screwdrive of appropriate size
Toggle handle cannot be latched in close position	Fail to remove circuit breaker sealing tape before installing alarm auxiliary module	Remove alarm auxiliary module from existing position and remove the sealing tape from the circuit breaker. Realign alarm auxiliary module with circuit breaker to ensure proper fit
	Incorrect operating position	Operate the toggle handle from the middle position of the circuit breaker and alarm contact
	Malfunction of latching mechanism	Replace faulty unit
Unable to receive signal from changeover contact	The stripped cable length is insufficient and cannot conduct electricity properly	Strip the cable to the correct length
	Screw terminals are not tightened or cables are not properly secured	Tighten the loosen terminal screws

8 Warranty period and environmental protection, and other legal regulations

8.1 Warranty period

Under standard storage and transporation conditions, provided product itself and remain undamaged, the warranty period is 36 months from the date of manufacture.

The following instances are excluded from warranty coverage;

1）Damage resulting from improper use, storage or maintenance by user.

2）Damage resulting from repairs or modifications by unauthorized institutions, personnel, or by users themselves.

3）The product has surpassed the warranty period.

4）4）Damage caused by force majeure events

8.2 Environmental protection

To support environmental protection, please ensure proper disposal of this product or its components as industry waste when scrapping. Alternatively, they may be sent to a recycling facility for sorting, disassembly, and recycling, in compliance to international regulations and local regulations.

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AXL-B8R

Alarm auxiliary contact

IEC/EN 60947-5-1

Check 12

Test date: Please see The packing

ZHEJIANG CHINT ELECTRICS CO.,LTD.

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CHINT ELECTRICS

AXL-B8R
Alarm auxiliary contact
User Instruction

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NO:2024.11

CHINT
CHINT ELECTRICS

AXL-B8R
Alarm auxiliary contact

User Instruction

Standard: IEC/EN 60947-5-1

⚠ Safety Warning

1. The product must not be installed in environments containing flammable, explosinve gases or where there are moisture and condensation. Do not operate or handle the product with wet hands.
2. Do not touch any of the conductive parts of the product while it is in operations.
3. Ensure the power is turn off before installing, maintaining or servicing the product.
4. Children must not be allowed to handle the product or play with the packaging.
5. Allow sufficient space and maintaining a safe distance around the product when installing.
6. 6) Do not install in environments where gas media can corrode metals and damage the insulation.
7. When installing, use designated wiring and connect to a power supply and load that meets the specific requirement.
8. To avoid accidents, follow the installation and mounting instructions in the manual carefully.
9. After uppacking, inspect the product for any damages and verify all necessary parts are uncluded.
10. Prevent foreign objects or particles from entering the product.

1 Main purpose and scope of application

The UVT-B8R undervoltage release complies with IEC/EN 60947-1 and IEC/EN 60947-5-1 standards. It is suitable for use in AC circuits (50/60 Hz) with rated voltages of 240 V, 120 V, 48 V, or DC voltage of 48 V. It is designed to be assembled with NB8-125R series circuit breakers for undervoltage protection.

2 Operation, installation, transportation, and storage

2.1 Operation conditions

The operating ambient air temperature is -35 ℃ to 70 ℃, ensure the average temperature value within 24 hours does not exceed 35 ℃.

When operating at maximum temperature is 40 ℃, ensure relative humidity of the air does not exceed 50%. Higher relative humidity is allowed when operating at lower temperatures (such as reaching 90% at 20 ℃). Special measures should be taken for occasional condensation caused by temperature changes.

The altitude of the installation site shall not exceed 2000m.

Pollution level: Level 3

2.2 Installation conditions

Following the safety guidelines, the installation site should be shielded from rain, snow and free from water vapour. The product should be installed in a stable location without significant vibration, shock and environment free from

conductive dust.

2.3 Transportation and storage conditions

The applicable temperature range for transportation and storage is between -35 ℃ and 70 ℃. The storage area should be well ventilated, dry, and not affected by rain, snow, or direct sunlight.

3 Wiring diagram

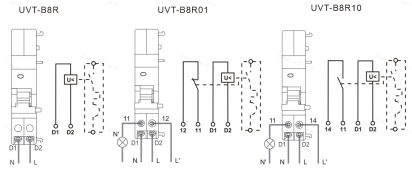


Figure 1 Wiring Diagram

4 Dimensions (mm)

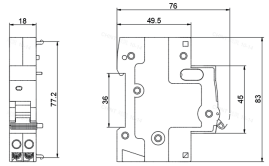


Figure 2 Dimensions

5 Installation, debugging, and operation

5.1 Product assembly diagram.

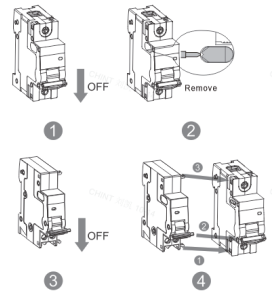


Figure 3 Assembly diagram

5.2 Dismantling diagram

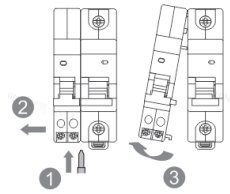


Figure 4 Dismantling diagram

5.3 Copper wire connection, wire selection, and torque requirement

	Z1
7 mm, s (mm²)	18-14 AWG (0.75-2.5)
(Nm)	1

Figure 5 Dismantling diagram

Attention: Check that the wiring is correct, properly secured and verify the proper operation of the handle before powering on the auxiliary circuit.

5.4 Possible configuration of NB8 electrical auxiliaries

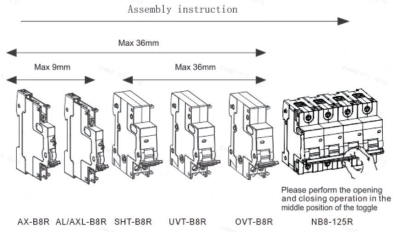


Figure 6 Assembly and usage requirements

6 Maintenance

In the event of an abnormal condition with the undervoltage release, priortise eliminating the circuit fault to ensure safety. Once the fault has been resolved, manually close the device to restore the power supply.

7 Fault Analysis and Troubleshooting

Table 1 Fault analysis and troubleshooting

Fault description	Analysis	Rectification
The handle cannot be closed	Supply voltage not present or out of range	Ensure the presence of the supply voltage and within the operating limits
	The sealing tab at the circuit breaker has not been removed when installing the auxiliary	Remove the sealing tab at the side of the circuit breaker. Align both toggle handles and reinstall the auxiliary onto the circuit breaker.
	Incorrect operating position	Operate in the middle position of the circuit breaker handle
	Operating mechanism malfunction	Replace product
No power supply	The stripping length of the wire lead is too short	Re-strip the wire
	The cable termination is loose or not tightened properly.	Tighten the terminal screws
	Faulty / burn coil unit	Replace product

8 Warranty period and environmental protection, and other legal regulations

8.1 Warranty period

Under standard storage and transporation conditions, provided product itself and remain undamaged, the warranty period is 36 months from the date of manufacture.

The following instances are excluded from warranty coverage;

1）Damage resulting from improper use, storage or maintenance by user.

2）Damage resulting from repairs or modifications by unauthorized institutions, personnel, or by users themselves.

3）The product has surpassed the warranty period.

4）Damage caused by force majeure events

8.2 Environmental protection

To support environmental protection, please ensure proper disposal of this product or its components as industry waste when scrapping. Alternatively, they may be sent to a recycling facility for sorting, disassembly, and recycling, in compliance to international regulations and local regulations.

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UVT-B8R
Undervoltage release
IEC/EN 60947-1
IEC/EN 60947-5-1

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UVT-B8R
Undervoltage release
User Instruction

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NO:2025.01

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UVT-B8R
Undervoltage release

User Instruction

Standard: IEC/EN 60947-1
IEC/EN 60947-5-1

⚠ Safety Warning

1. The product must not be installed in environments containing flammable, explosinve gases or where there are moisture and condensation. Do not operate or handle the product with wet hands.
2. Do not touch any of the conductive parts of the product while it is in operations.
3. Ensure the power is turn off before installing, maintaining or servicing the product.
4. Children must not be allowed to handle the product or play with the packaging.
5. Allow sufficient space and maintaining a safe distance around the product when installing.
6. Do not install in environments where gas media can corrode metals and damage the insulation.
7. When installing, use designated wiring and connect to a power supply and load that meets the specific requirement.
8. To avoid accidents, follow the installation and mounting instructions in the manual carefully.
9. After uppacking, inspect the product for any damages and verify all necessary parts are uncluded.
10. Prevent foreign objects or particles from entering the product.

11. During cable termination, ensure the wires is securely fasterned and tightened to the specified torque requirement.
12. This product does not provide protection against electric shock and power imbalance.
13. After unpacking, please inspect the product for any damage and verify that all items are complete.

1 Main purpose and scope of application

The AL-B8R alarm contact complies with the IEC/EN 60947-5-1 standard and is suitable for use in circuits with a specified thermal current of up to 6 A, with a rated voltage of up to 415 V, 50/60Hz, or DC rated voltage of up to 130 V. It is designed to be assembled with NB8-125R series circuit breakers and serves as a remote signal indicator for the circuit breaker's trip status.

2 Normal use, installation, transportation, and storage conditions

2.1 Normal usage conditions

The operating ambient air temperature is -35℃ to 70℃, ensure the average temperature value within 24 hours does not exceed 35℃.

When operating at maximum temperature 40℃, ensure the relative humidity of the air does not exceed 50%.Higher relative humidity is allowed when operating at lower temperatures(such as reaching 90% at 20 ℃).Special measures should be taken for occasional condensation

caused by temperature changes.

The altitude of the installation site shall not exceed 2000m.

Pollution level: Level 3

2.2 Installation conditions

Following the safety guidelines, the installation site should be shielded from rain, snow and free from water vapour. The product should be installed in a stable location without significant vibration, shock and environment free from conductive dust.

2.3 Transportation and storage conditions

The applicable temperature range for transportation and storage is between -35℃ and +70℃. The storage area should be well ventilated, dry, and not affected by rain, snow, or direct sunlight.

3 Wiring diagram

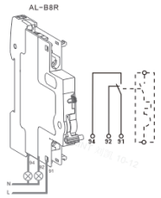


Figure 1 Wiring Diagram

4 Dimensions (mm)

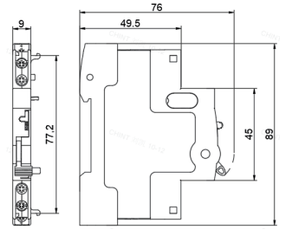


Figure 2 Dimensions

5 Installation, commission, and operation

5.1 Before installing, check the contacts can be switched and status of the breaker is reflected correctly. Check the trip indicator is white, if red, manually moved the toggle to ON position and switch back to OFF. Insert a suitably size flathead screwdriver into the "T" test cavity to initiate a trip action. Reset the contact by moving the toggle handle to ON position.

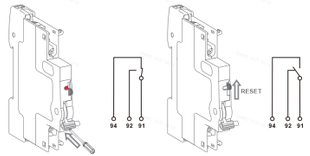


Figure 3 Testing the changeover contact

5.2 Mounting of alarm contact

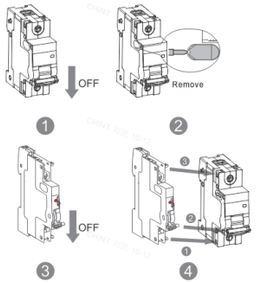


Figure 4 Assembly Diagram

5.3 Dismounting of alarm contact

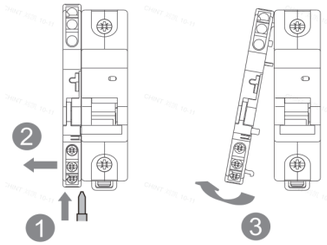


Figure 5 Dismantling diagram

5.4 Copper wire connection, wire selection, and torque requirement

	Z1
7 mm (mm²)	18-14 AWG (0.75-2.5)
(Nm)	1

Figure 6 Wiring requirements

5.5 Possible configuration of NB8 electrical auxiliaries

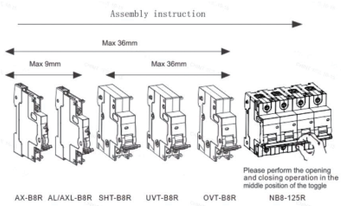


Figure 7 Assembly and usage requirements

6 Product maintenance

When the alarm auxiliary contact shows abnormal indication status, the circuit fault should be eliminated first, and then manually closed to restore power supply.

7 Fault Analysis and Troubleshooting

Table 1 Fault analysis and troubleshooting

Fault description	Analysis	Rectification
Unable to reset alarm contact	Flathead screwdriver size mismatch	Choose an appropriate size flathead screwdriver
Toggle handle unable to latch in ON position	The sealing tab at the circuit breaker has not been removed when installing the auxiliary	Remove the sealing tab at the side of the circuit breaker. Align both toggle handles and reinstall the auxiliary onto the circuit breaker.
	Incorrect operating position	Operate in the middle position of the circuit breaker handle
	Operating mechanism malfunction	Replace product
No continuity	The stripping length of the wire lead is too short	Re-strip the wire
	The cable termination is loose or not tightened properly.	Tighten the terminal screws

8 Warranty period and environmental protection, and other legal regulations

8.1 Warranty period

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AL-B8R
Alarm auxiliary contact
User Instruction

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