

WAGO I/O System 750/753

Power supply; 24 VDC; fuse holder

750-601



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Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

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1 Provisions

1.1 Scope of Applicability

This document applies to the following product:

🔗 **750-601** (24V DC Power Supply (Fuse)) Power supply; 24 VDC; fuse holder.

From hardware version	06
From firmware version	--
Product detail page	🔗 www.wago.com/750-601

Note

Note applicable documents!

The complete operating instructions for the product consists of several, applicable documents. The product must only be installed and operated in accordance with the complete operating instructions. Knowledge of all applicable documents is required for proper use. You can find all documents and information on the product detail page.

Applicable document

📖 System Manual I/O System 750/753

- Provisions
- Safety
- Planning
- Transport and Storage
- Assembly and Disassembly
- Conductor Termination
- Decommissioning

2 Safety



This section presents hazards that could occur if the products are used. Builders and operators must take all hazards into account when analyzing the risk of their installed systems. Measures to reduce the risk of hazards that are foreseeable from the manufacturer's point of view (i.e., without knowledge of the specific system built) are explained in the respective sections of this documentation (e.g., in "Planning").

Builders and operators must implement explained risk reduction measures and also take their own measures depending on the residual risk.

2.1 Thermal Safety

- The fuse must only be inserted and replaced when the system supply and the field supply are switched off, or when the area is known to be non-hazardous.
- A fuse that has just blown may be very hot! Do not touch the fuse with your bare hands. If necessary, let the blown fuse cool down, or protect your hands, for example, with insulating gloves.

3 Overview

This supply module provides a 24 VDC field-side supply voltage to downstream I/O modules.

The 24 V supply voltage is fed in from an external source via the CAGE CLAMP® connections.

The supply module provides the 24 V power supply and the 0 V potential for the field level for downstream I/O modules via the power jumper contacts with a spring contact design.

The supply module must only be used in connection with a suitable fuse (not included).

When the status LED is green, this indicates that the supply module is providing a 24 V power supply to the power jumper contacts. The status is only indicated if the fuse is intact.

When the 24 V power supply is present, a red error LED indicates a fuse defect or error.

4 Properties

4.1 View

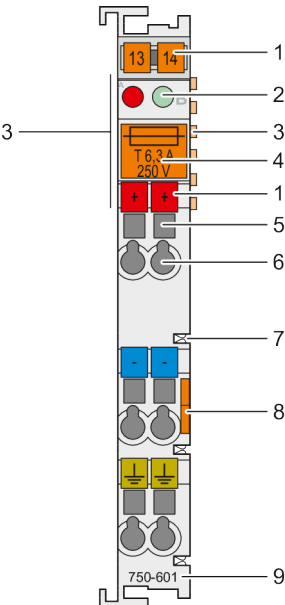


Figure 1: View

1	Slot for Mini-WSB (optional)	☐ System Manual I/O System 750/753
2	Indicators	🔗 Indicators [► 8] and 🔗 Diagnostics via Indicators [► 14]
3	Data contacts	☐ System Manual I/O System 750/753
4	Fuse holder	🔗 Requirements for Wiring and Accessories [► 12] , 🔗 Inserting the Fuse [► 13] and 🔗 Changing Fuse [► 15]
5	Access to open the associated CAGE CLAMP® connection	☐ System Manual I/O System 750/753
6	CAGE CLAMP® connection	🔗 Wiring Interface [► 8] and ☐ System Manual I/O System 750/753
7	Power jumper contacts (spring)	☐ System Manual I/O System 750/753
8	Release tab	☐ System Manual I/O System 750/753
9	Item number	🔗 Scope of Applicability [► 4]

4.2 Indicators

When the status LED is green, this indicates that the supply module is providing a 24 V power supply to the power jumper contacts. The status is only indicated if the fuse is intact.

When the 24 V power supply is present, a red error LED indicates a fuse defect or error.

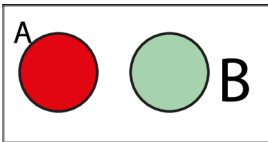


Figure 2: Indicators

LED	Function
A	Error status of the fuse
B	Status of the operating voltage (power jumper contacts)

The meanings of the status indications are described section [🔗 Diagnostics via Indicators \[► 14\]](#).

4.3 Wiring Interface

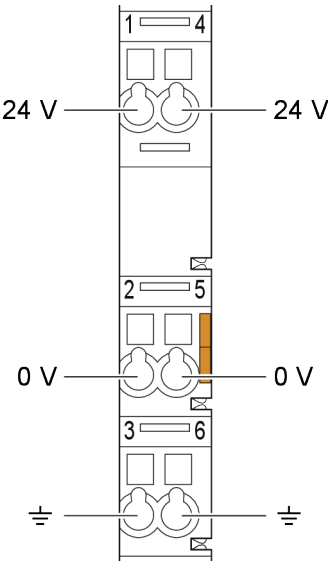


Figure 3: CAGE CLAMP® Connections

Designation	Connection	Function
24 V	1	Input: 24 V field supply feed-in
	4	
0 V	2	Input: 0 V field supply feed-in
	5	
Ground	3	Input: ground
	6	

4.4 Power Jumper Contacts

The potential for the field supply is fed in via the spring contacts.

For additional information on the Power Jumper Contacts, please see [System Manual I/O System 750/753](#).

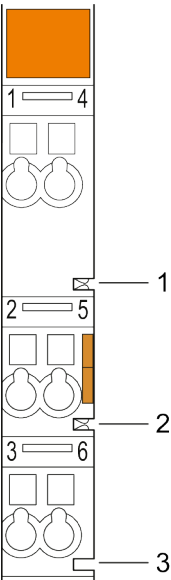


Figure 4: Power Jumper Contacts

Pos.	Type
1	Groove with spring contact
2	
3	Groove without contact

Arrangement in the Bus Node

For electrical compatibility requirements see Section [Schematic Circuit Diagram \[► 10\]](#).

4.5 Schematic Circuit Diagram

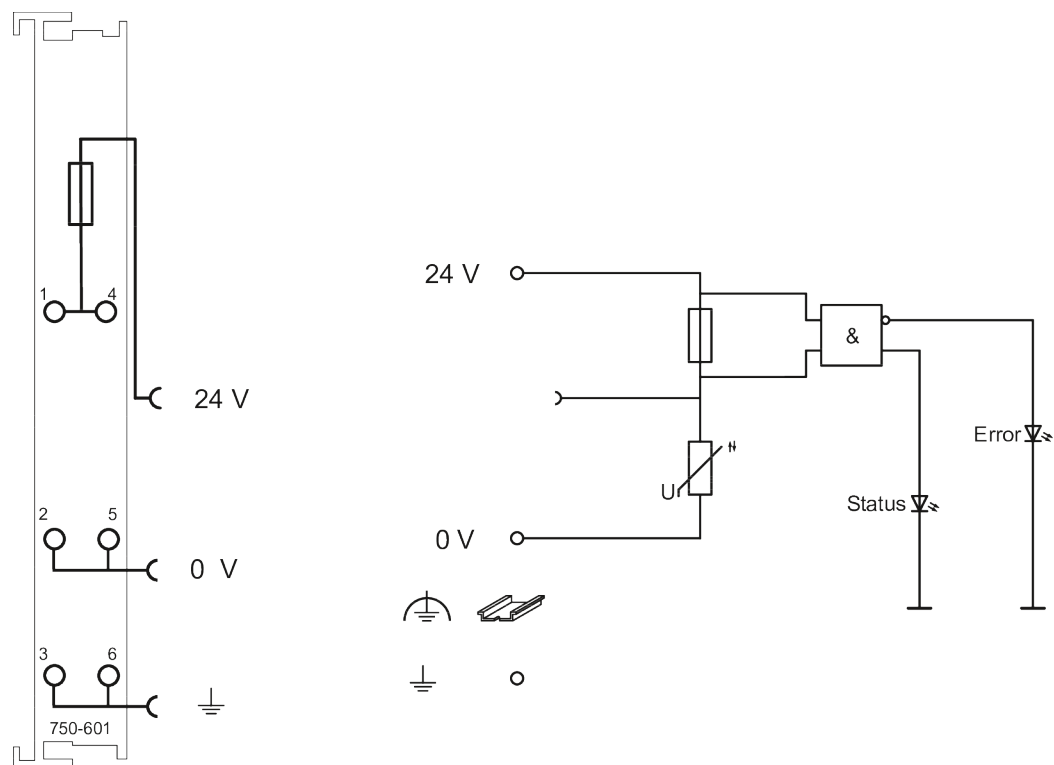


Figure 5: Schematic Circuit Diagram

For information on the system power supply, please see [System Manual I/O System 750/753](#).

5 Functions

5.1 Diagnostic Function

The state of the operating voltage and fuse can be evaluated via LEDs.

The evaluation of the possible indications is described in section [🔗 Diagnostics \[► 14\]](#).

6 Planning

This section provides helpful information for planning the use of the product in a node.

6.1 Compatibility

The power supply can be operated on all head stations of the WAGO I/O System 750/753.

6.2 Requirements for Wiring and Accessories

The supply module must only be used in connection with a suitable fuse (not included).

Use only fuses with the following specifications: 5 × 20 mm, max. T 6.3 A. The fuses must have a maximum power loss of 1.6 W (IEC 60127).

Use only UL-approved fuses if you are operating the supply module within the scope of application of UL.

For this supply module, the maximum permissible current (6.3 A) to flow through the power contacts is limited by the fuse. When configuring the system, do not exceed this current. If it is exceeded, an additional supply module must be used.

When using the supply module, pay special attention to the permissible voltage of the subsequent I/O modules.

Power supply concepts and the node structure, e.g., for certified operation of the supply module in shipbuilding or onshore/offshore applications, can be found in the [WAGO System Manual I/O System 750/753](#).

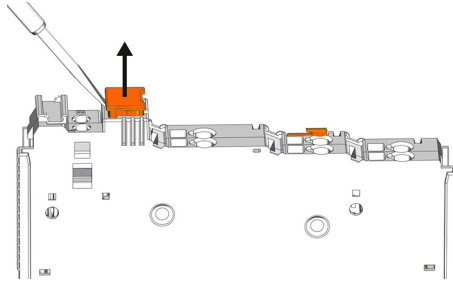
7 Installation and Removal

7.1 Inserting the Fuse

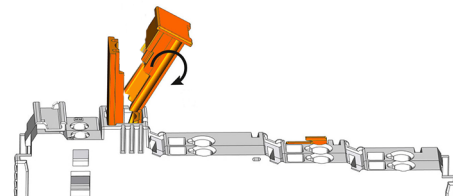
Install a suitable new fuse before initial commissioning.

Proceed as follows:

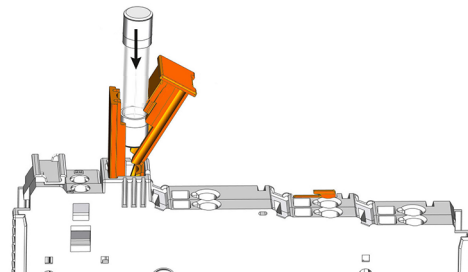
1. Loosen the fuse holder by placing a flathead screwdriver on the upper housing recess and prying out the fuse holder.



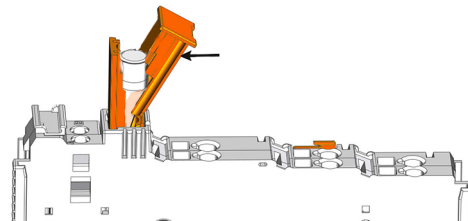
2. Pivot the fuse holder cover downwards to open the fuse holder.



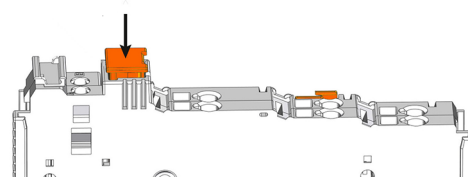
3. Insert a fuse.



4. Close the fuse holder by pushing it in until it clicks into place.



5. Slide the fuse holder back into the module housing.



➔ One the fuse has been slid back in, the supply module is ready for use.

8 Diagnostics

8.1 Diagnostics via Indicators

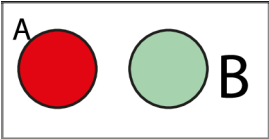


Figure 6: Status LEDs A and B

Table 1: Possible States of the LEDs

Status		Explanation
A	B	
Off	Off	No supply voltage on the CAGE CLAMP® contacts
Off	Green	24 V supply voltage present and fuse OK
Red	Off	24 V supply voltage present and fuse defective or missing

9 Service

9.1 Changing Fuse

CAUTION

Fuse can be very hot!

A fuse that has just blown may be very hot!

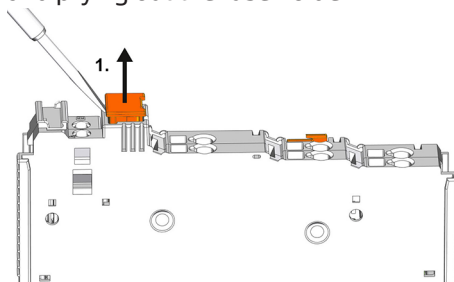
Do not touch the fuse with your bare hands.

If necessary, let the blown fuse cool down, or protect your hands, for example with insulating gloves.

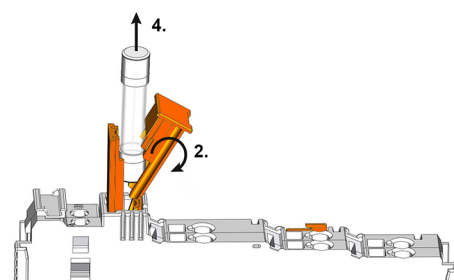
To replace a defective fuse, proceed as follows:

✓ Make sure that the connected circuit is voltage-free.

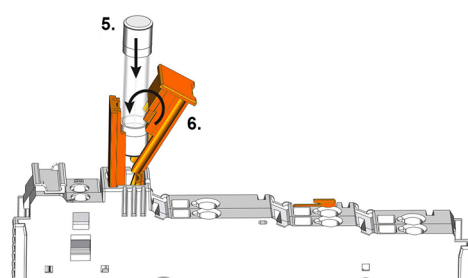
1. Loosen the fuse holder by placing a flathead screwdriver on the upper housing recess and prying out the fuse holder.



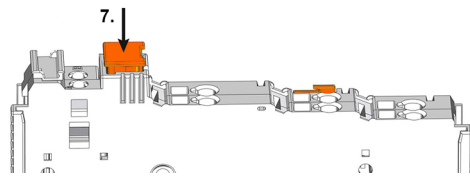
2. Pivot the fuse holder cover downwards to open the fuse holder.
3. Take measures to prevent the hot fuse from burning you, such as letting it cool down first.
4. Take out the old fuse.



5. Insert a new fuse.



6. Close the fuse holder by pushing it in until it clicks into place.



7. Slide the fuse holder back into the module housing.
 - ➔ Once the fuse holder has been slid back in, the field supply for the subsequent I/O modules is restored as soon as the power supply is reconnected.

10 Appendix

10.1 Technical Data, Approvals, Guidelines and Standards

Note

Subject to changes!

Please also observe the further product documentation! You can generate the current datasheet at any time at: [> www.wago.com /<item number>](https://www.wago.com).

See also

 Data sheet 750-601 [► 18]

Data Sheet | Item Number: 750-601

Power Supply; 24 VDC; fuse holder

<https://www.wago.com/750-601>



This supply module provides the I/O modules with the corresponding supply potential.

The maximum current provided by the supply module is 6.3 A. When configuring the system, the total current must not be exceeded. Should higher currents be necessary, an intermediate supply module must be added to the assembly.

This module is fuse-protected (5 x 20 mm). The fuse can be changed quickly, with ease, from the retractable fuse carrier.

A blown fuse is indicated by a LED.

Technical data

Signal type	Voltage
Signal type (voltage)	24 VDC
Supply voltage (system)	5 VDC; via data contacts
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via CAGE CLAMP® connection; transmission (field-side supply voltage only) via spring contact
Current carrying capacity (power jumper contacts)	6.3 A
Number of outgoing power jumper contacts	3
Fuse	5 x 20; T 6.3 A (not included)
Indicators	LED (A) red: defective fuse error; LED (B) green: power supply status

Connection data

Connectable conductor materials	Copper
Connection type 1	Field supply
Solid conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Connection technology: field supply	6 x CAGE CLAMP®

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

Mechanical data

Mounting type	DIN-35 rail
Pluggable connector	fixed



Material data	
Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.69 MJ
Weight	46.5 g
Conformity marking	CE

Environmental requirements	
Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Product classification	
UNSPSC	39121410

Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 25550-51-0 7439-92-1
REACH Candidate List Substance	4-Methyl-1,2-cyclohexanedicarboxylic anhydride Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	2867924b-70b7-4758-a590-f995d958ec6a
SCIP notification number (Belgium)	ae843cd9-d39a-4bbe-9894-c68457a9eb18
SCIP notification number (Bulgaria)	61c61a79-8e0e-4929-af8c-4af4b8c8d75c
SCIP notification number (Czech Republic)	9b5c752b-d91d-4798-b40e-8ed11b5f73cf
SCIP notification number (Denmark)	67fa290f-4a2b-4e41-85dc-a74a69814714
SCIP notification number (Finland)	f703d88e-a5ec-4d15-894d-e643111621ff
SCIP notification number (France)	86d221de-037f-47c8-be26-52afc5d1e379
SCIP notification number (Germany)	cf65bd97-f53e-4d45-84c8-c2c5ba75ff3b
SCIP notification number (Hungary)	2837dc61-ff63-403a-ac95-75ce6542ff4e
SCIP notification number (Italy)	48715baf-a476-42bc-9f1e-4b4b6ef4dd9c
SCIP notification number (Netherlands)	24c0f9a0-9a85-4b06-b7c5-0009bbdcd098
SCIP notification number (Poland)	16bc0647-06aa-40e8-802c-97f952cacac3
SCIP notification number (Romania)	06246bf7-df3a-48b8-8716-56673a6a9fdd
SCIP notification number (Sweden)	49a011c8-4aca-45fa-a47c-2d0352a23bcd



Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-SPP750

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	22-2219060
BSH Bundesamt fuer See- schifffahrt und Hydrogra- phie	-	1104
BV Bureau Veritas S.A.	-	13453/E0 BV
DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA0000194
KR Korean Register of Ship- ping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/1101/880590/23
RINA RINA Germany GmbH	-	ELE343521XG001

Approvals for hazardous areas



Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
CCCEX CQST/CNEX	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 14.0035 X (Ex ec IIC T4 Gc)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079-0	TÜV 12.1297 X
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec

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