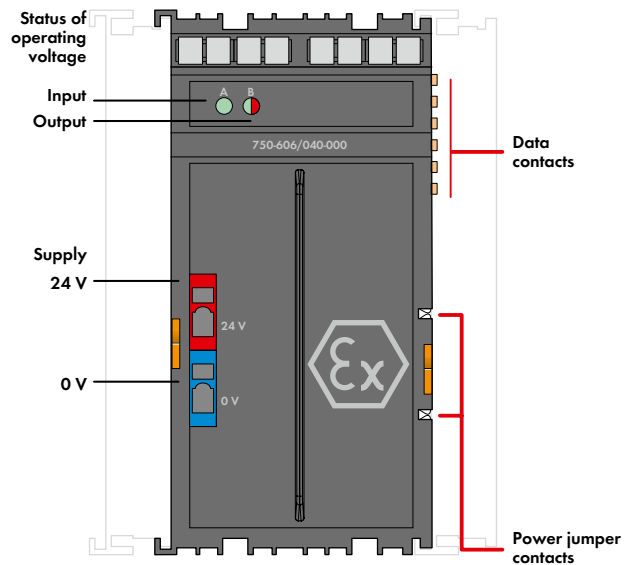


Supply Module; 24 VDC; Diagnostics; for Intrinsically Safe XTR Modules



This supply module powers all intrinsically safe 750 XTR Series Ex i Modules. It also monitors power supply to the downstream Ex i segment and separates the intrinsically safe from the non-intrinsically safe section of the WAGO-I/O-SYSTEM 750 XTR. Input and output sides are electrically isolated from each other. Maximum supply current available to all connected modules is 1.0 A. When configuring the Ex i segment, the total current must not be exceeded. In the event of a short circuit or overload, electronic monitoring automatically switches off the output voltage. After eliminating the fault, the output voltage is reactivated within approximately ten seconds.

Note: If, due to load conditions, more than one supply module is required per station, four spacer modules (750-616/040-000) must be placed between the intrinsically safe sections.



Indicators:

- Green LED (input voltage)
- Green/red LED (output voltage available/not available)

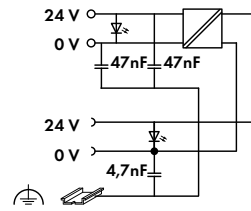
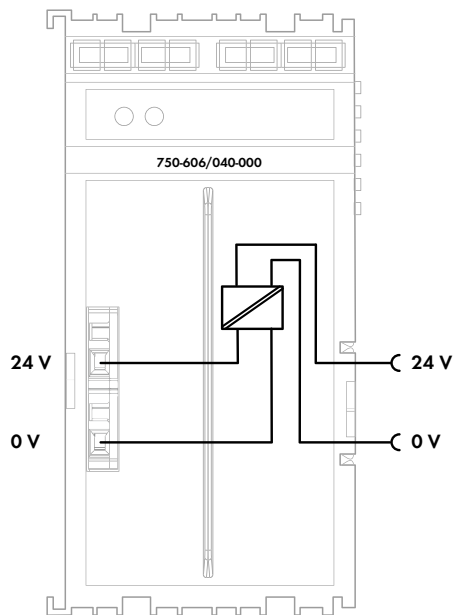
General information (e.g., installation regulations) on explosion protection is available in the WAGO-I/O-SYSTEM 750 XTR manuals!

The device is ideal for operation in harsh environments thanks to:

- Extended temperature range
- Greater immunity to impulse voltages and electromagnetic interference
- Higher vibration and shock resistance

| Description | Item No. | Pack. Unit |
|---|-----------------|-------------------|
| Power Supply 24 VDC Diag for Ex i XTR Modules | 750-606/040-000 | 1 |
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| Accessories | Item No. | Pack. Unit |
| Mini-WSB Quick Marking System, plain | 248-501 | 50 |
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| Technical Data | |
|---|--|
| Current consumption (system supply) | 7.5 mA |
| Supply voltage (field) | 24 VDC, via power jumper contacts (adjacent XTR Ex i modules are supplied with U _O = max. 26.8 V) |
| Current carrying capacity (power jumper contacts) | 1 ADC |
| Input voltage | 24 VDC (-25 ... +30 %) |
| Fuse | Electronic |
| Data width | 2 bits (input voltage failure, fuse triggered) |
| Power consumption P _{max.} | 29 W |
| Power loss P _I | < 5 W |
| Rated surge voltage | 1 kV; Rated surge voltage between intrinsically safe and non-intrinsically safe circuits: 1.5 kV (EN 60079-11) |
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Technical Data

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|---------------------------------|---|
| Connection technology | CAGE CLAMP® |
| Conductor range | 0.25 ... 1.5 mm ² / 28 ... 14 AWG |
| Strip length | 5 ... 6 mm / 0.22 inch |
| Dimensions W x H x D | 48 x 70.9 x 100 mm |
| Weight | 167.3 g |
| Ambient temperature (operation) | -40 ... +70 °C |
| Ambient temperature (storage) | -40 ... +85 °C |
| Relative humidity | Max. 95 %, short-term condensation per Class 3K7 / IEC EN 60721-3-3 and E DIN 40046-721-3 (except wind-driven precipitation, water and ice formation) |
| Operating altitude | Without temperature derating: 0 ... 2000 m; With temperature derating: 2000 ... 5000 m (0.5 K/100 m); Maximum: 5000 m |
| Vibration resistance | Per IEC 60068-2-6 (acceleration: 5 g), EN 60870-2-2, IEC 60721-3-1, -3 |
| Shock resistance | Per IEC 60068-2-27 (15 g/11 ms/half-sine/1,000 shocks; 25 g/6 ms/1,000 shocks), EN 61373 |
| EMC immunity to interference | EN 61000-6-1, EN 61000-6-2, EN 61131-2 (marine applications), EN 60255-26, EN 60870-2-1, EN 61850-3, IEC 61000-6-5, IEEE 1613, VDEW: 1994 |
| EMC emission of interference | EN 61000-6-3 and EN 61000-6-4, EN 61131-2, EN 60255-26 (marine applications), EN 60870-2-1 and EN 61850-3 (industrial and residential areas) |

Explosion protection

| | |
|----------------|--|
| Input voltage | $U_n = 24 \text{ VDC}$; $P_{\text{max}} = 29 \text{ W}$; $U_m = 253 \text{ V}$ |
| Output voltage | $U_o = 26.8 \text{ V}$ (intrinsically safe output voltage per type of protection ia); $I_n = 1 \text{ A}$ |

Guidelines and Approvals

| | |
|----------------------------------|-----------------------------------|
| Conformity marking | CE |
| Ex guideline | EN/IEC 60079-0, -7, -11 |
| Marine applications | ABS, DNV GL, LR, PRS |
| Ⓢ E175199 Ordinary Locations | |
| TÜV 17 ATEX 196484 X | Ⓢ II 3G Ex ec [ia Ga] IIC T4 Gc |
| IECEX TUN 17.0005X | Ex ec IIC T4 Gc |
| Ⓢ UL E198726 Hazardous Locations | Cl I, Div 2, Group A, B, C, D, T4 |