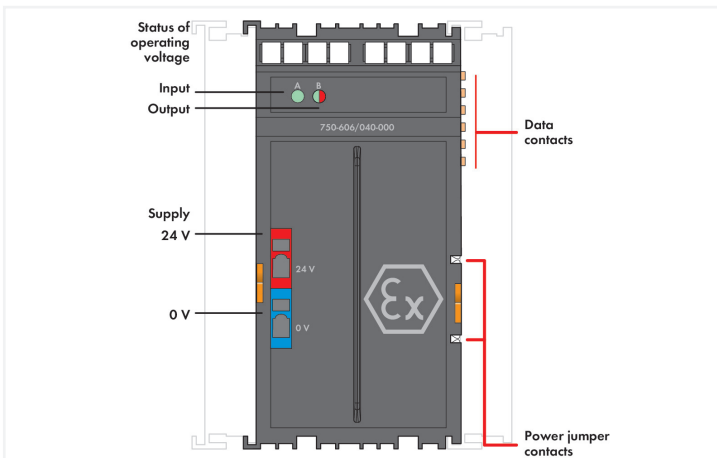
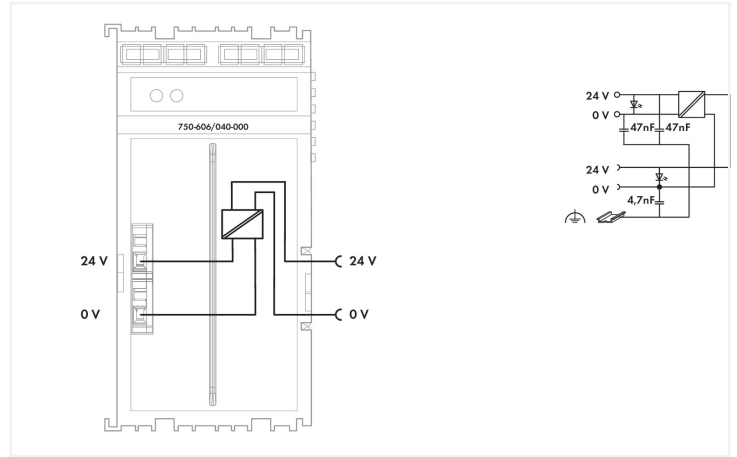




Color: dark gray



This supply module powers all intrinsically safe 750 Series Ex i Modules. It also monitors the 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. The input and output sides are electrically isolated from each other.

The maximum current provided by the supply module 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.

If, due to load conditions, more than one supply module is required per station, four distance 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)

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

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

Notes

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

Fuse	electronic
Power consumption P_{max}	29 W
Data width	2 bits (input voltage failure, fuse triggered)
Intrinsic safety Ex i	Yes
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	7.5 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via CAGE CLAMP® connection; transmission via spring contact); Derating must be observed!
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)
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	1 A
Derating	Derating (supply voltage): Ambient temperatures under laboratory conditions: (-25 ... +30 %); for -40 ... +55 °C: 24 V (-25 ... +20 %); for +55 ... +70 °C: 24 V (-25 ... +10 %); Lower limit in all temperature ranges: -27.5 % (including 15 % residual ripple)
Marking	ATEX/IECEx: II 3G Ex ec IIC T4 Gc

Explosion protection

Ex standard	EN/IEC 60079-0, -7, -11
Power supply (output)	$U_o = 26.8$ V (intrinsically safe output voltage per protection level ia); $I_n = 1$ A
Power supply (input)	$U_n = 24$ VDC; $P_{max} = 29$ W; $U_m = 253$ V

Connection data

Connection technology: field supply	2 x CAGE CLAMP®
Connection type 1	Field supply
Solid conductor	0.25 ... 1.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor	0.25 ... 1.5 mm ² / 24 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches

Physical data

Width	48 mm / 1.89 inches
Height	100 mm / 3.937 inches
Depth	70.9 mm / 2.791 inches
Depth from upper-edge of DIN-rail	63.7 mm / 2.508 inches

Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Color	dark gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	2.546 MJ
Weight	168.3 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.)
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Relative humidity (with condensation)	Short-term condensation per Class 3K7/IEC EN 60721-3-3 and E-DIN 40046-721-3 (except for wind-driven precipitation, water and ice formation)
Vibration resistance	per IEC 60068-2-6 (acceleration: 5g), EN 60870-2-2, IEC 60721-3-1, -3
Shock resistance	per IEC 60068-2-27 (15g/11 ms/half-sine/1,000 shocks; 25g/6 ms/1,000 shocks), EN 61373
EMC immunity to interference	per EN 61000-6-1, -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	per EN 61000-6-3, -4, EN 61131-2, EN 60255-26, marine applications, EN 60870-2-1, EN 61850-3
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

Commercial data

eCl@ss 10.0	27-24-26-10
eCl@ss 9.0	27-24-26-10
ETIM 8.0	EC001600
ETIM 7.0	EC001600
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143649575
Customs tariff number	85389091890