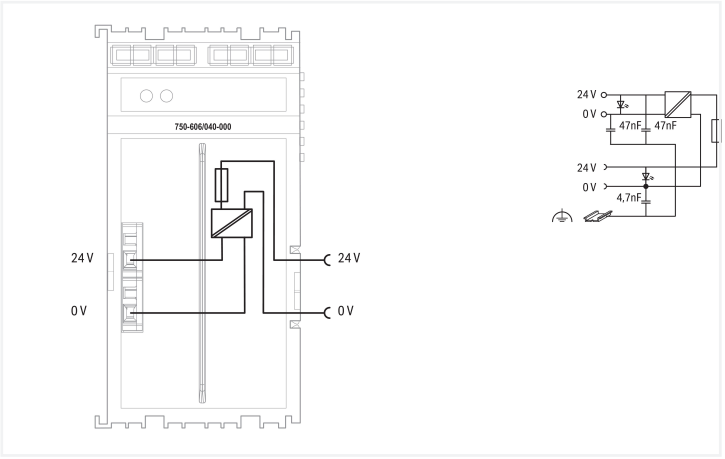
Data Sheet | Item Number: 750-606/040-000

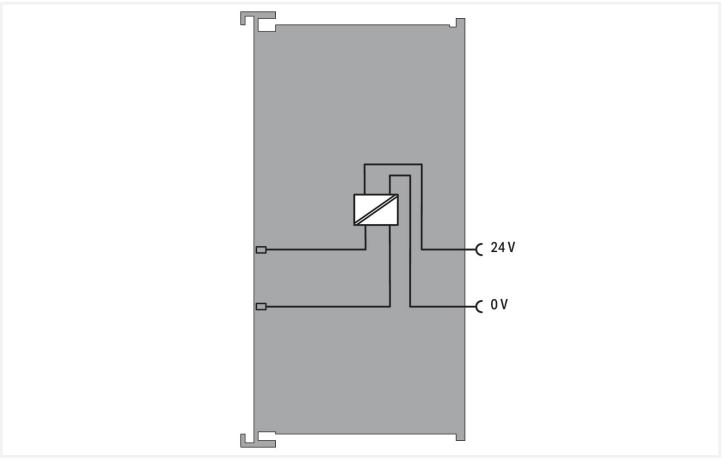
Power Supply; 24 VDC; Diagnostics; Intrinsically safe; Extreme

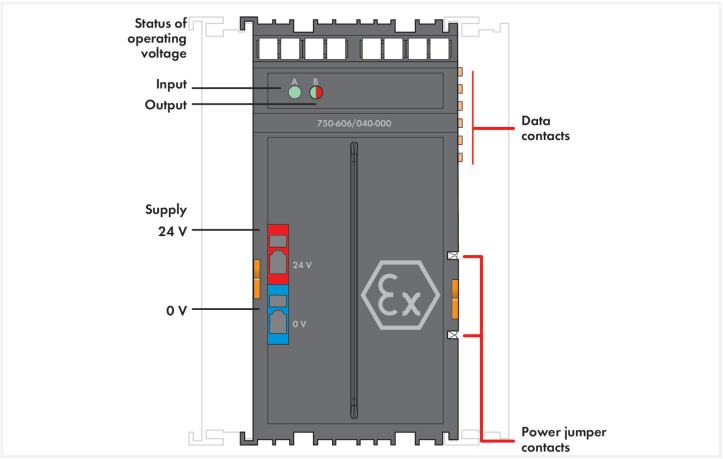
https://www.wago.com/750-606/040-000





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!

Technical data

Item description	Power Supply; 24 VDC; Diagnostics; Intrinsically safe
Supply voltage	24 VDC; (-25 % ... +30 %); input voltage
Fuse	electronic
Intrinsically safe Ex i	Yes
Data width	2 bits (input voltage failure, fuse triggered)
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!
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)
Power consumption $P_{max.}$	29 W
Power loss P_l	< 5 W
Rated impulse withstand 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
Indicators	LED (A) green: operating voltage status: input; LED (B) green/red: operating voltage status: output

Explosion protection

Identification	ATEX II 3 G Ex ec IIC T4 Gc IECEx/ INMETRO Ex ec IIC T4 Gc cULus (Devision classified) Class I, Div. 2, Group A B C D, T4
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

Connectable conductor materials	Copper
Connection type 1	Field supply
Solid conductor	0.25 ... 1.5 mm² / 24 ... 14 AWG
Fine-stranded conductor	0.25 ... 1.5 mm² / 24 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches
Connection technology: field supply	2 x CAGE CLAMP®

Continued on next page

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

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
Ambient 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 left, horizontal up, vertical top and vertical bottom
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_2S 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 9.0	EC001600
ETIM 8.0	EC001600
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
Customs tariff number	85389091890

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide Perfluorobutane sulfonic acid (PFBS) and its salts
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	4fe17c26-3e48-4c6a-8405-01c7463c2a8c
SCIP notification number (Belgium)	f162755d-825d-4026-9ea8-ab288594dc6a
SCIP notification number (Bulgaria)	646d72f5-7f22-49b8-95cc-b93b60e3f0c0
SCIP notification number (Czech Republic)	5b380fba-e486-4276-a5dd-822714e91fc4
SCIP notification number (Denmark)	b26250f5-4af5-4aad-9582-c0d89a934520
SCIP notification number (Finland)	660f5834-f12f-4bf8-b296-a04fc275fd14
SCIP notification number (France)	bcd493c6-3df0-44d4-badd-eba5afd20434
SCIP notification number (Germany)	c01000a4-4223-4dde-94fa-6f7db1620dd8
SCIP notification number (Hungary)	f142bb98-7eff-4442-beea-e3867c6963d7
SCIP notification number (Italy)	ab7ba289-4f42-4cc8-a91c-0d6d91d1cd87
SCIP notification number (Netherlands)	32814c55-3aac-4565-b952-30f0e3d4fa44
SCIP notification number (Poland)	40eb8935-549b-4b60-a0d8-bf7b4f0e9efe
SCIP notification number (Romania)	a49e1082-9d5b-471b-a0d8-97863037a64d
SCIP notification number (Sweden)	a8b4f724-1558-4a50-8246-ba63c388b382

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	E175199

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Ex-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Ex-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	22-2208829-PDA
DNV DNV GL SE	-	TAA00000Y7
LR Lloyds Register	-	LR22276776TA
PRS Polski Rejestr Statków	-	TE/1099/880590/23

Approvals for hazardous areas

Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV_17_ATEX_196484X (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
CCC CNEX	CNCA-C23-01	2020312310000212 (Ex ec IIC T4 Gc)
IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 17.0005X (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
UKEx Element Materials Technology UK	-	EMA21UKEX0043X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Continued on next page

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 750-606/040-000	

Documentation

Manual			
Product Manual 24VDC 1.0A Ex i power supply / XTR	V 2.0.0 07.11.2019	pdf 1654.89 KB	
System Manual Series 750/753			

System Description		
Intrinsically Safe XTR Modules – General Product Information		pdf 214.93 KB
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 770.48 KB

Bid Text			
750-606/040-000	19.02.2019	xml 8.04 KB	
750-606/040-000	08.02.2018	doc 33.00 KB	

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 143.50 KB	

CAD/CAE-Data

CAD data	
2D/3D Models 750-606/040-000	

CAE data	
EPLAN Data Portal 750-606/040-000	
ZUKEN Portal 750-606/040-000	

1 Compatible Products

1.1 Optional Accessories

1.1.1 DIN-rail

1.1.1.1 Mounting accessories



Item No.: 210-196
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



Item No.: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



Item No.: 210-508
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored



Item No.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



Item No.: 210-506
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored



Item No.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



Item No.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



Item No.: 210-115
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



Item No.: 210-112
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored



Item No.: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored



Item No.: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



Item No.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

Continued on next page

1.1.2 Marking

1.1.2.1 Group marker carrier



Item No.: 750-107
Group marker carrier

1.1.2.2 Marker



Item No.: 2009-145/000-006
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 2009-145/000-007
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 2009-145/000-023
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 2009-145/000-012
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-145/000-005
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



Item No.: 2009-145/000-024
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



Item No.: 2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 2009-145/000-002
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 248-501/000-006
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 248-501/000-007
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray



Item No.: 248-501/000-023
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green



Item No.: 248-501/000-017
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green



Item No.: 248-501/000-012
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 248-501/000-005
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red



Item No.: 248-501/000-024
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 248-501/000-002
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

1.1.2.3 Marker carrier



Item No.: 750-103
Group marker carrier

1.1.3 Shield termination

1.1.3.1 Shield clamping saddles



Item No.: 790-108
Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 … 8 mm



Item No.: 790-208
Shield clamping saddle; 12.4 mm wide; 3 … 8 mm



Item No.: 790-116
Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 … 16 mm



Item No.: 790-216
Shield clamping saddle; 21.8 mm wide; 6 … 16 mm



Item No.: 790-124
Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 … 24 mm



Item No.: 790-220
Shield clamping saddle; 30 mm wide; 6 … 20 mm



Item No.: 790-140
Shield clamping saddle; diameter of compatible conductor

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