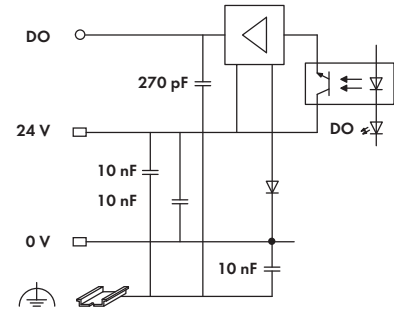
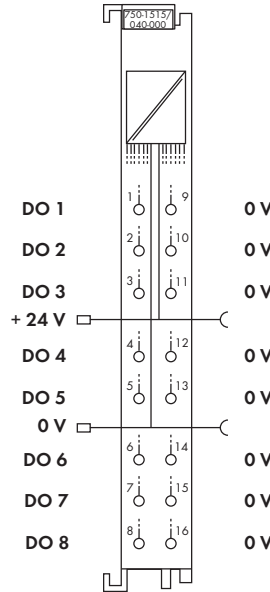
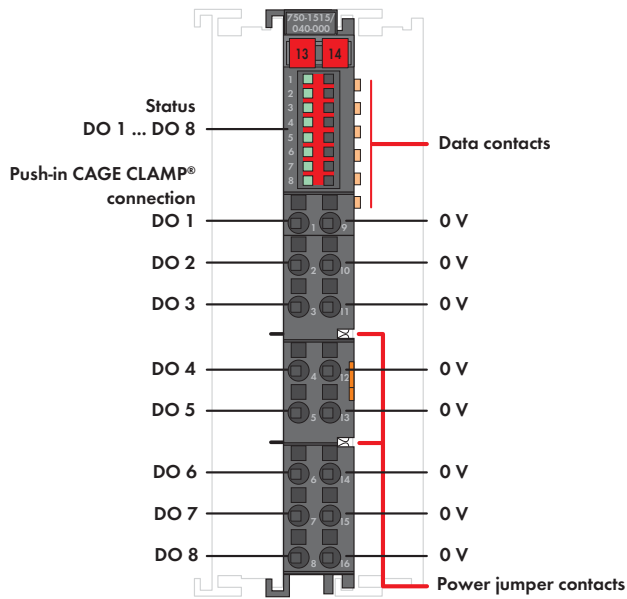


# 8-Channel Digital Output Module 24 VDC

for eXTReme environmental conditions; high-side switching, 2-wire connection



This 2-wire digital output module provides 8 channels at a width of just 12 mm. It transmits binary control signals from the automation device to the connected actuators (e.g., magnetic valves, contactors, transmitters, relays or other electrical loads).


The module features Push-in CAGE CLAMP® connections providing push-in termination of solid conductors.

A green LED indicates the switched status of each channel. Field and system levels are electrically isolated.

An operating tool with a 2.5 mm blade (210-719) is required to open the Push-in CAGE CLAMP® connections.

The module is ideally suited for operation in harsh environmental conditions:

- strongly extended temperature range
- higher dielectric strength and EMC resistance
- higher vibration and shock resistance

Description	Item No.	Pack. Unit
8DO 24VDC 0.5A, 2-wire connection / XTR	750-1515/040-000	1
Interference-free for use in safety functions (see manual)		
Accessories	Item No.	Pack. Unit
<b>Miniature WSB Quick marking system</b>		
plain	248-501	5
with marking	see Section 11	
	210-719	50
Operating tool, with partially insulated shaft, type 1, blade (2.5 x 0.4) mm		

## Approvals

Conformity marking	CE
Korea Certification	KC
Marine applications	GL, LR
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
TÜV 17 ATEX 193969 X	II 3G Ex ec IIC T4 Gc
IEEx TUN 16.0046 X	Ex ec IIC T4 Gc

## Technical Data

Wire connection	Push-in CAGE CLAMP®
Cross sections	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> / AWG 24 ... 16
Strip lengths	8 ... 9 mm / 0.33 in
Dimensions (mm) W x H x L	12 x 62 x 100
Weight	48 g
Operating temperature	-40 °C ... +70 °C
Storage temperature	-40 °C ... +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 m ... 2000 m; with temperature derating: 2000 m ... 5000 m (0.5 K/100 m); max.: 5000 m

Technical Data	
No. of outputs	8
Output type	High-side switching
Type of load	Inductive, resistive loads and lamps
Max. switching frequency	1 kHz
Output current (max.)	0.5 A, short-circuit protected
Max. current consumption (internal)	20 mA
Current consumption typ. (field side)	15 mA
Voltage via power jumper contacts	24 VDC
under laboratory conditions +15 °C ... +35 °C	18 V ... 31.2 V (17.4 V ... 31.2 V) <sup>1)</sup>
for -40 °C ... +55 °C	18 V ... 28.8 V (17.4 V ... 28.8 V) <sup>1)</sup>
for +55 °C ... +70 °C	18 V ... 26.4 V (17.4 V ... 26.4 V) <sup>1)</sup>
	<sup>1)</sup> including residual ripple of 15 %
Current via power jumper contacts (max.)	10 A
Rated surge voltage	1 kV
Bit width	8 bits
Vibration resistance	acc. to IEC 60068-2-6 (acceleration: 5g), EN 60870-2-2, IEC 60721-3-1, -3, EN 50155, EN 61373
Shock resistance	acc. to IEC 60068-2-27 (15g/11 ms/half-sine/1000 shocks; 25g/6 ms/1000 shocks), EN 50155, EN 61373
EMC immunity of interference	acc. to EN 61000-6-1, -2, EN 61131-2, marine applications, EN 50121-3-2, -4, -5, EN 60255-26, EN 60870-2-1, EN 61850-3, IEC 61000-6-5, IEEE 1613, VDEW: 1994
EMC emission of interference	acc. to EN 61000-6-3, -4, EN 61131-2, EN 60255-26, marine applications, EN 60870-2-1, EN 61850-3, EN 50121-3-2, -4, -5