

This digital output module features 16 channels in a width of just 12 mm (0.47 inch).

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 enabling solid conductors to be connected by simply pushing them in.

A green LED indicates the signal state 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.

Technical data

Number of digital outputs	16
Total number of channels (module)	16
Signal type	Digital
Signal type (voltage)	24 VDC
Actuator connection	16 x (1-wire)
Output characteristic	high-side switching
Output current per channel	0.5 A
Output current	short-circuit-protected
Switching frequency (max.)	1 kHz
Load type	Resistive, inductive, lamp load
Output data width (internal) max.	16 bits
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	40 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission (supply voltage field side only) via spring contact)
Current consumption, field supply (module with no external load)	29 mA
Isolation	500 V system/field
Indicators	LED (1-16) green: Status DO 1 ... DO 16
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	10 A

Connection data

Connection technology: inputs/outputs	16 x Push-in CAGE CLAMP® (outputs)
Connection type 1	Output
Solid conductor	0.08 ... 1.5 mm ² / 28 ... 16 AWG
Fine-stranded conductor	0.25 ... 1.5 mm ² / 22 ... 16 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69 mm / 2.717 inches
Depth from upper-edge of DIN-rail	61.8 mm / 2.433 inches

Mechanical data

Mounting type	DIN-35 rail
Pluggable connector	fixed

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.058 MJ
Weight	49.9 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 up, horizontal down, 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 61000-6-3, 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

Commercial data

Product Group	15 (I/O System)
eCl@ss 10.0	27-24-26-04
eCl@ss 9.0	27-24-26-04
ETIM 9.0	EC001599
ETIM 8.0	EC001599
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454905576
Customs tariff number	85371098990

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1 75980-60-8
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-
RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	b0f045e7-d178-4dff-b357-d4b87e122ddc
SCIP notification number (Belgium)	8fdf9103-120e-41da-962e-8a4778a35cb8
SCIP notification number (Bulgaria)	ccf699ac-4477-4350-b857-2039b462633f

Environmental Product Compliance

SCIP notification number (Czech Republic)	4bff8e53-ecae-4fd6-b3a4-cdc43fd20f6c
SCIP notification number (Denmark)	3c965ddd-cfc2-420e-a09f-5a4d8781b588
SCIP notification number (Finland)	a21bd430-05dc-4484-9a0f-df5b014b19c7
SCIP notification number (France)	2cb79c20-e6f8-4390-bfa3-116908b95fbd
SCIP notification number (Germany)	4aa764fe-e251-4558-a80d-978e6aab38f6
SCIP notification number (Hungary)	3f3aaf6d-4879-494c-a3d5-dcc0fceed75
SCIP notification number (Italy)	acf1ab18-af25-4b22-8f12-099a85a225ed
SCIP notification number (Netherlands)	d5ef9f95-5357-4bda-9d79-c6f6f8a5b219
SCIP notification number (Poland)	0a5ecd33-c7b9-47f4-b94d-70c567167514
SCIP notification number (Romania)	1cba2f0c-edbb-4944-b423-d60e0bc174c7
SCIP notification number (Sweden)	c0209038-643d-44c6-8b33-8c198fb02536