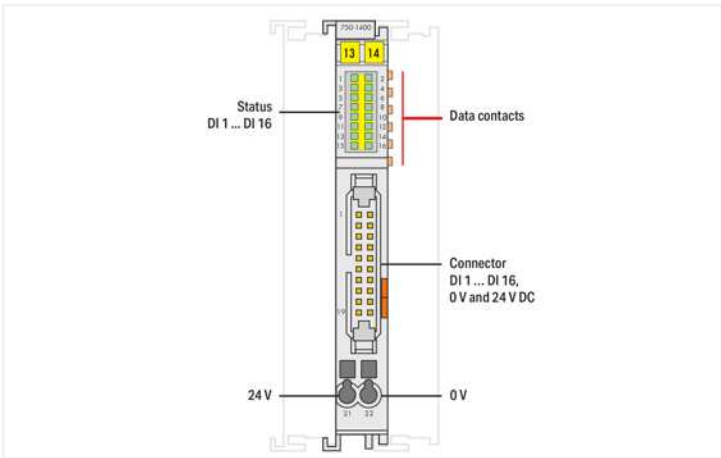
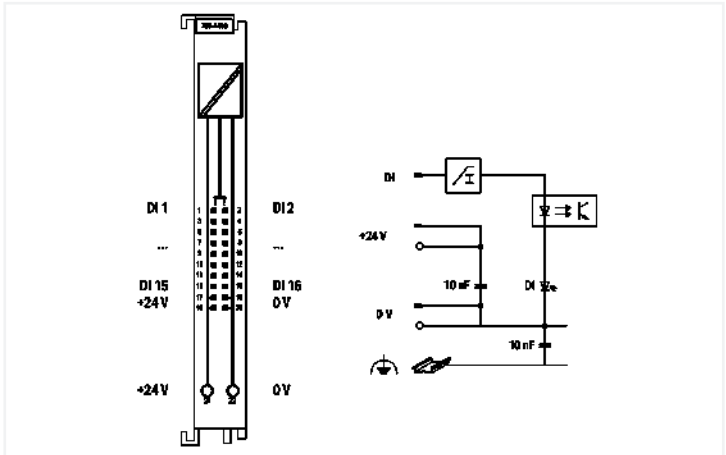




Color:  light gray



This digital input module features 16 channels in a width of just 12 mm (0.47 inch). It receives binary control signals from digital field devices (e.g., sensors, encoders, switches or proximity sensors). The module connects to electronic modules via a 20-pole ribbon cable. The 24 V power is fed to the electronic modules via two CAGE CLAMP® connectors. Each input channel has a noise-rejection RC filter with 3.0 ms time constant. A green LED indicates the signal state of each channel. Field and system levels are electrically isolated.

Technical data	
Number of digital inputs	16
Total number of channels (module)	16
Signal type	Digital
Signal type (voltage)	24 VDC
Supply voltage (sensor)	24 VDC
Sensor connection	16 x (1-wire)
Input characteristic	high-side switching
Input filter (digital)	3 ms
Input current per channel for signal (0) typ.	0.6 mA
Input current per channel for signal (1) typ.	2.3 mA
Input current per channel for signal (1) min.	2.1 mA
Input current per channel for signal (1) max.	2.4 mA
Voltage range for signal (0)	-3 ... +5 VDC
Voltage range for signal (1)	15 ... 30 VDC
Input data width (internal) max.	16 bits
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	25 mA

Technical data

Supply voltage (field)	24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)
Isolation	500 V system/field
Indicators	LED (1-16) green: Status DI 1 ... DI 16

Connection data

Connection technology: inputs/outputs	1 x DIN 41651 connector; male connector (20-pole)
Connection technology: field supply	2 x CAGE CLAMP®
Connection type 1	Inputs/outputs
Connection type 2	Field supply
Solid conductor 2	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor 2	0.08 ... 2.5 mm² / 28 ... 14 AWG
Strip length 2	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	74.1 mm / 2.917 inches
Depth from upper-edge of DIN-rail	66.9 mm / 2.634 inches

Mechanical Data

Mounting type	DIN-35 rail
Pluggable connector	fixed

Material Data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.062 MJ
Weight	41.7 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal (standing/lying); vertical
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 8.0	EC001599
ETIM 7.0	EC001599
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454880590
Customs tariff number	85389099990