


381166719	DATA SHEET	
Valid from: 04.11.2024	UNITRONIC ACCESS IOL08DIO08DIO	

Description

- IO-Link I/O Hub
- industrial metal housing, up to IP69
- 16 digital in-/output channels
- 8 x M12 A-coded I/O connection, 5-poles
- 1 x M12 A-coded IO-Link Class A connection, 5-poles




General characteristics

Device Type	IO Link Hub
Protocol	IO-Link
I/O Function	16 DIO
Power-/Bus Connection	M12, 5-poles, A-coded, male
I/O Connection	M12, 5-poles, A-coded, female
I/O Type	Digital Input/Output (Universal)
Protection Degree / IP Rating	IP65 / 67 / 69
Ambient Temperature (Operation)	-40 °C to 70 °C
Ambient Temperature (Storage/Transport)	-40 °C to 85 °C
Permissible Humidity (Operation)	5 % ... 95 % (For UL applications max. 80 %)
Permissible Humidity (Storage/Transport)	5 % ... 95 % (For UL applications max. 80 %)
Air Pressure (Operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air Pressure (Storage/Transport)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Protection Class	III, IEC 61140, EN 61140, VDE 0140-1
Pollution Degree	3 acc. to EN 60664-1, VDE 0110-1
Mean Time To Failure (MTBF) @ 20°C	5528252 h
Fastening Torque (Fixing Screw)	M4: 1 Nm
Fastening Torque (Ground Connection (FE))	M4: 1 Nm
Fastening Torque (Bus/Power Connection)	M12: 0.5 Nm
Fastening Torque (I/O Connection)	M12: 0.5 Nm

Variation

Article	Description	Amount of IO Ports
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Power and interfaces requirements

Connection Module Supply Voltage	M12 Power, 5-poles, A-coded (IO-Link)
Number of Connections	1
Module Supply Voltage	24 V DC (20-30VDC) (SELV/PELV)
Current consumption (typ.)	80 mA (at 24VDC)
Connection Sensor Supply Voltage	M12, 5-poles, A-coded
Reverse Polarity Protection	Yes
Status Indicator (Actuator Supply)	LED green
Diagnostic Indicator	LED red

Physical properties

Housing Material	Metal, zinc die-cast
Housing Plating	Nickel, matt
Housing Color	Grey Metallic
Potted	Yes
Weight	380 g
Contact Base Material	M12, A-coded, CuSn, Gold-plated
Contact Bearer Material	PA
O-Ring Material	FKM
Mounting	2 hole screw mounting. Use standard M4 x 25 / 30 screws with toothed lock washer (as per DIN 125) and self-locking nuts.

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IO Links

IO-Link Class	Class A
Connection	M12, 5-poles, A-coded
Supported COM Modes	230.4 kBaud (COM 3)
Cycle Time / Update Rate	min. 2 ms
Parameter Storage	Supported
Frame Type	Type_2_V
Process Data Length	4 Bytes Input Data, 4 Bytes Output Data
Configuration	IODD, Process Data


Digital Input Channels

Number of Digital Input Channels	max. 16, universal
Connection	M12, 5-poles, A-coded, female
Number of Ports	8x, X1 to X8
Channel Type	Type 1 acc. to IEC 61131-2
Input Wiring	2-, 3-wire
Nominal Voltage	24 V DC via US (module power supply)
Nominal Current	typ. 5 mA
Sensor Current Supply	max. 500 mA per port at 25°C
Sensor Type	PNP
Input Voltage Range "0" signal	-3 V DC ...+5 V DC
Input Voltage Range "1" signal	15 V DC ... 30 V DC
Input filter time	0 to 3 ms, configurable
Protective Circuit: Electronically	Overload protection, short-circuit protection
Status Indicator (Inputs)	LED white or yellow per channel
Diagnostic Indicator	LED red per module

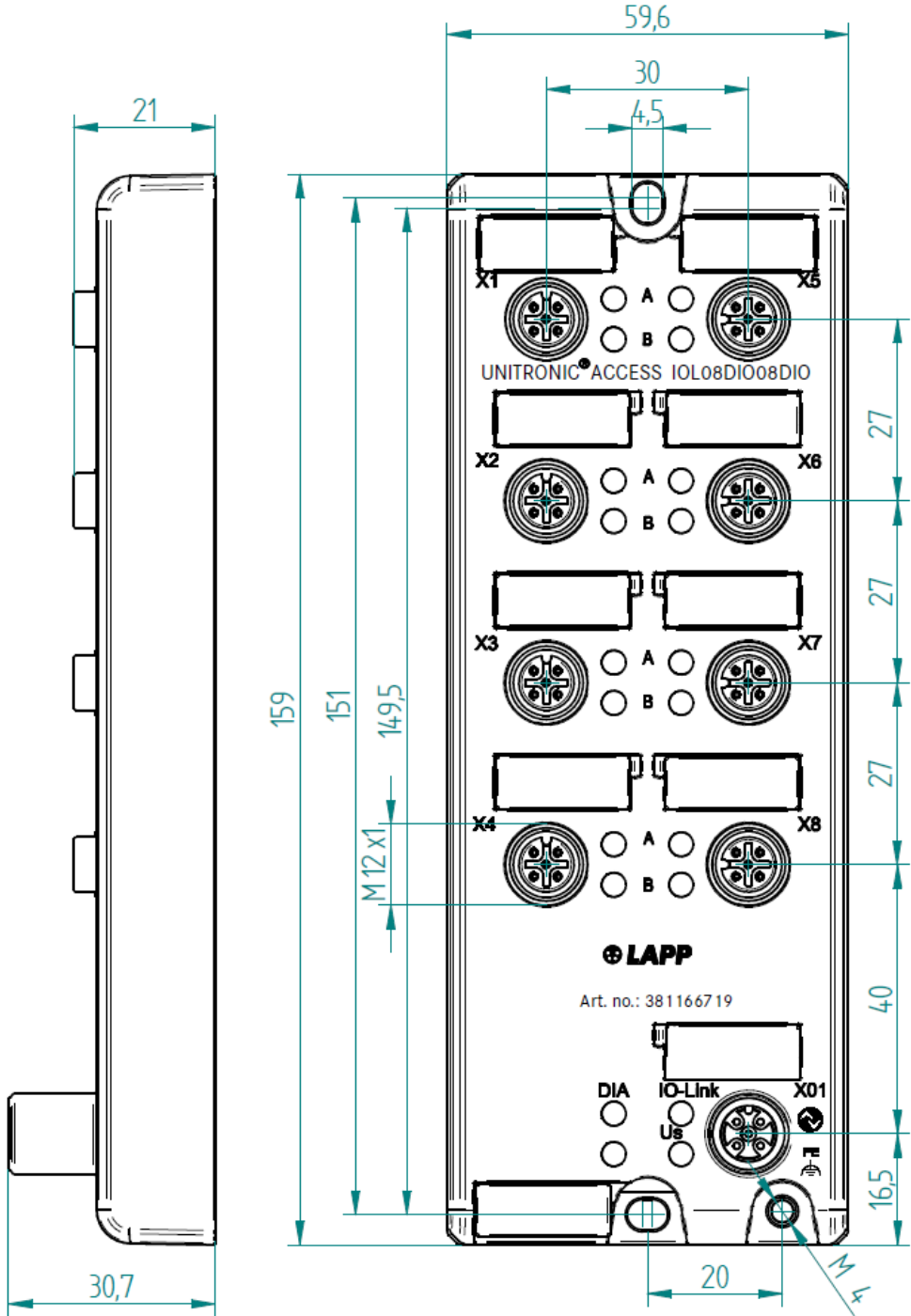
Digital Output Channels

Number of Digital Output Channels	up to 16, universal
Connection	M12, 5-poles, A-coded, female
Number of Ports	8x, X1 to X8
Channel Type	p-switching
Output Wiring	2-, 3-wire
Output Current per Channel	max. 350 mA
Output Current per Module	max. 4 A
Galvanically Isolated	No
Protective Circuit: Electronically	Overload protection, short-circuit protection
Overload Behavior	Auto off and on switching / Manual restart
Status Indicator (Outputs)	LED white or yellow per channel
Diagnostic Indicator	LED red per module

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Technical drawing



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Standards and approvals

EMC	EN IEC 61000-6-2: 2019 EN IEC 61000-6-4: 2019 IEC 61131-2: 2017
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Approvals	CE UL (E331560) IO-Link
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Application range

Automation, industrial machinery and plant engineering

Note

Do not connect / disconnect system power supply under voltage!

Photographs are not true to scale and do not represent detailed images of the respective products.

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