

Inline terminal - IB IL AO 2/UI-PAC - 2700775

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Inline analog output terminal, complete with accessories (plug plug and labeling field), 2 outputs, 0-20 mA, 4-20 mA, ± 20 mA, 0-10 V, ± 10 V, 2-wire connection method

Product Features

- 2 analog output channels
- Connection of actuators in 2-wire technology
- Current ranges: 0 mA ... 20 mA, 4 mA ... 20 mA, ± 20 mA
- Voltage ranges: 0 V ... 10 V, ± 10 V
- Diagnostic and status indicators

Key commercial data

package_quantity	1
GTIN	4046356639965

Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP20

General

Weight	66 g
Note on weight specifications	With connector

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Technical data

General

Mounting type	DIN rail
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	7.5 V supply (bus logics)/24 V analog supply (analog I/O) 500 V AC 50 Hz 1 min
Test section	7.5 V supply (bus logics) / functional earth ground 500 V AC 50 Hz 1 min
Test section	24 V analog supply (analog I/O) / functional earth ground 500 V AC 50 Hz 1 min
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B; 6 kV contact discharge, 8 kV air discharge
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A; Field intensity: 10 V/m
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion B, 2 kV
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Transient surge voltage (surge) EN 61000-4-5/IEC 61000-4-5 Criterion B; DC: ± 0.5 kV/ ± 1 kV(symmetrical/unsymmetrical) supply cables; shielded I/O cables: ± 1 kV
Conformance with EMC directives	Noise immunity test in accordance with EN 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A; Test voltage 10 V
Conformance with EMC directives	Noise emission test according to EN 61000-6-3 Radio interference properties EN 55022 Class A
Diagnostics messages	Failure of the internal I/O supply I/O error message sent to the bus coupler
Diagnostics messages	I/O supply failure Message in the diagnostic code (in the IB IL format)
Diagnostics messages	Short circuit/overload of the outputs Message in the diagnostic code (in the IB IL format)
Diagnostics messages	Configuration invalid Message in the diagnostic code (in the IB IL format)

Interfaces

Name	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Transmission physics	Copper

Power supply for module electronics

Communications power U_L	7.5 V (via voltage jumper)
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Inline potentials

Communications power U_L	7.5 V DC (via voltage jumper)
Current consumption from U_L	typ. 55 mA
Current consumption from U_L	max. 65 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	typ. 24 mA (No-load)

Inline terminal - IB IL AO 2/UI-PAC - 2700775

Technical data

Inline potentials

Current consumption from U_{ANA}	max. 30 mA (No-load)
Current consumption from U_{ANA}	typ. 38 mA (Nominal voltage load ($U_{OUT1/2} = 10\text{ V}$, $R_L = 1\text{ k}\Omega$))
Current consumption from U_{ANA}	max. 45 mA (Nominal voltage load ($U_{OUT1/2} = 10\text{ V}$, $R_L = 1\text{ k}\Omega$))
Current consumption from U_{ANA}	typ. 65 mA (Nominal current load ($I_{OUT1/2} = 20\text{ mA}$, $R_L = 0\ \Omega$))
Current consumption from U_{ANA}	max. 75 mA (Nominal current load ($I_{OUT1/2} = 20\text{ mA}$, $R_L = 0\ \Omega$))
Power consumption	typ. 1.32 W (Nominal voltage load ($U_{OUT1/2} = 10\text{ V}$, $R_L = 1\text{ k}\Omega$))
Power consumption	typ. 1.97 W (Nominal current load ($I_{OUT1/2} = 20\text{ mA}$, $R_L = 0\ \Omega$))

Analog outputs

Number of outputs	2
Connection method	2-wire (shielded, twisted pair)
Output name	Analog outputs
D/A conversion time	typ. 10 μs
D/A resolution	12 bit
Type of protection	Short-circuit and overload protection
Type of protection	Transient protection
Protective circuit/component	Electronic
Protective circuit/component	Suppressor diode
Data formats	IB IL, S7-compatible
Representation of output values	12 bits (11 bits + sign bit)
Process data update	(bus-synchronous)
Current output signal	0 mA ... 20 mA
Current output signal	4 mA ... 20 mA
Current output signal	-20 mA ... 20 mA
Load/output load current output	$\leq 450\ \Omega$
Voltage output signal	0 V ... 10 V
Voltage output signal	-10 V ... 10 V
Load/output load voltage output	$> 1\text{ k}\Omega$
Precision	typ. 0.1 % (of output range final value)
Precision	typ. 0.1 % (of output range final value)
Permissible cable length	max. 250 m (The specifications refer to nominal operation after complying with installation instructions. The specifications refer to the following reference cable type: Shielded power station cable: LiYCY; 2 x 2 x 0,5 mm ² ; VDE0812)

classifications

eCl@ss

eCl@ss 4.0	27250303
eCl@ss 4.1	27250303
eCl@ss 5.0	27250303
eCl@ss 5.1	27242601
eCl@ss 6.0	27242601

Inline terminal - IB IL AO 2/UI-PAC - 2700775

classifications

eCl@ss

eCl@ss 7.0	27242601
eCl@ss 8.0	27242601

ETIM

ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

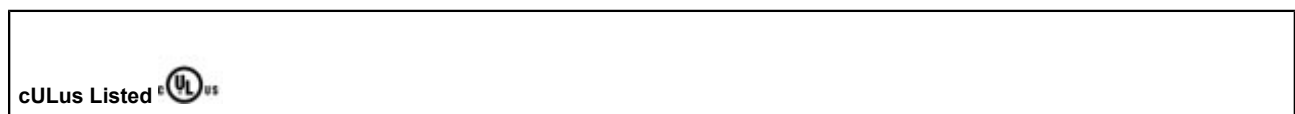
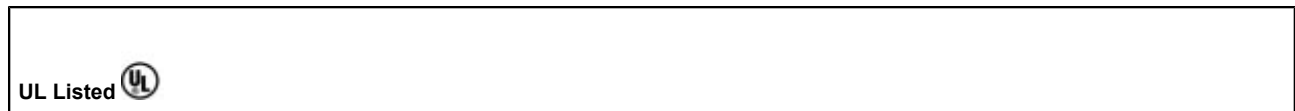
UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

approvals

UL Listed / cUL Listed / cULus Listed /

Approval details



accessories

Shield connection clamp

SK 8 - 3025163



Inline terminal - IB IL AO 2/UI-PAC - 2700775

accessories

SK 14 - 3025176



SK 20 - 3025189



SK 35 - 3026463



Support

AB-SK - 3025341



AB-SK 65 - 3026489



Inline terminal - IB IL AO 2/UI-PAC - 2700775

accessories

AB-SK/E - 3026476



Neutral conductor rail

NLS-CU 3/10 SN 1000MM - 0402174



Pick-off terminal block

AK 4 - 0404017



Installation terminal block

AKG 4 GNYE - 0421029



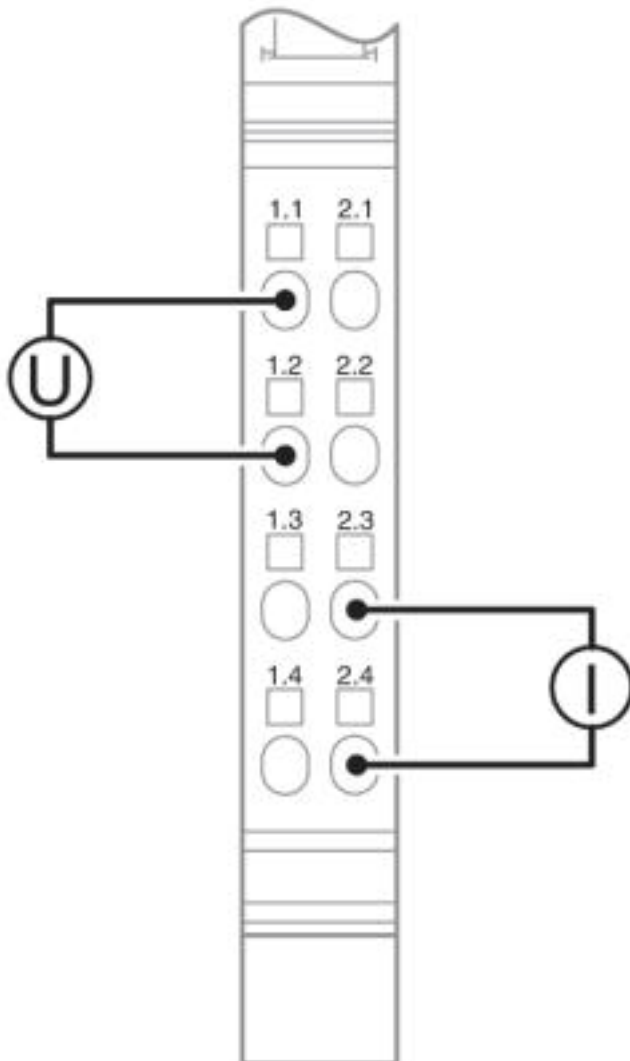
AKG 4 BK - 0421032



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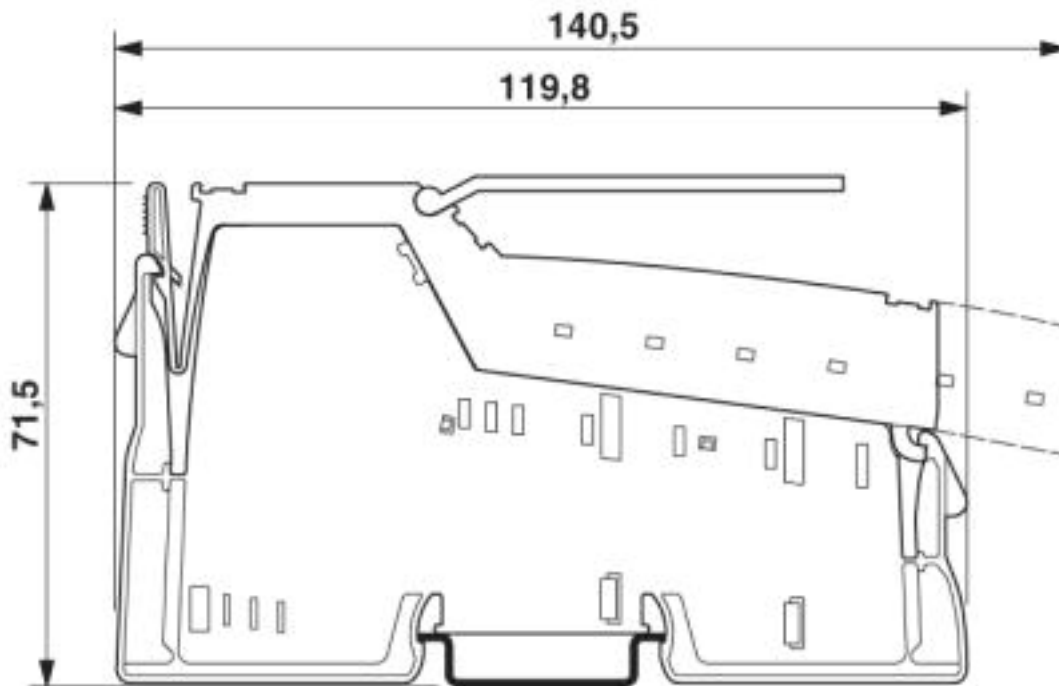
Drawings

Connection diagram



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Dimensioned drawing



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