

Safety Instructions

Proline Promag 300

UKEX: II3G

**UK
CA**



Proline Promag 300

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About this document



The document number of these Safety Instructions (XA) must match the information on the nameplate.

Associated documentation

For an overview of the scope of the associated Technical Documentation, refer to the following:

- *Device Viewer* (www.endress.com/deviceviewer): Enter serial number from nameplate.
- *Endress+Hauser Operations app*: Enter serial number from nameplate or scan matrix code on nameplate.

To commission the device, please observe the Operating Instructions pertaining to the device:

Measuring instrument	Documentation code				
	HART	FOUNDATION Fieldbus	PROFIBUS PA	PROFIBUS DP	Modbus RS485
Promag H 300	BA01392D	BA01477D	BA01396D	BA01865D	BA01394D
Promag P 300	BA01393D	BA01478D	BA01397D	BA01853D	BA01395D
Promag W 300	BA01918D	BA01938D	BA01928D	BA01940D	BA01939D

Measuring instrument	Documentation code			
	EtherNet/IP	PROFINET	PROFINET over Ethernet-APL	Modbus TCP over Ethernet-APL
Promag H 300	BA01716D	BA01718D	BA02106D	BA02391D
Promag P 300	BA01717D	BA01719D	BA02105D	BA02392D
Promag W 300	BA01937D	BA01941D	BA02104D	BA02393D

Additional documentation

Contents	Document type	Documentation code
Remote display and operating module DKX001	Special documentation	SD01763D
	Safety Instructions II3G Ex nA or II3G Ex ec	XA02581D
Explosion Protection	Brochure	CP00021Z/11
Ethernet-APL Installation Drawing	Installation Drawing	HE_01622

Please note the documentation associated with the device.

Certificates and declarations**UK Declaration of Conformity**

Documentation code: UK_00104

Manufacturer address

Endress+Hauser Flowtec AG
 Kägenstrasse 7
 4153 Reinach BL
 Switzerland

Extended order code

The extended order code is indicated on the nameplate, which is affixed to the device in such a way that it is clearly visible. Additional information about the nameplate is provided in the associated Operating Instructions.

Structure of the extended order code

* * * * *	-	* * * * * ... * * * * *	+	A*B*C*D*E*F*G*...
<i>(Device type)</i>		<i>(Basic specifications)</i>		<i>(Optional specifications)</i>

* = Placeholder
 At this position, an option (number or letter) selected from the specification is displayed instead of the placeholders.

Device type

The device and the device design is defined in the "Device type" section (Product root).

Basic specifications

The features that are absolutely essential for the device (mandatory features) are specified in the basic specifications. The number of positions depends on the number of features available. The selected option of a feature can consist of several positions.

Optional specifications

The optional specifications describe additional features for the device (optional features). The number of positions depends on the number of features available. The features have a 2-digit structure to aid identification (e.g. JA). The first digit (ID) stands for the feature group and consists of a number or a letter (e.g. J = Test, Certificate). The second digit constitutes the value that stands for the feature within the group (e.g. A = 3.1 material (wetted parts), inspection certificate).

More detailed information about the device is provided in the following tables. These tables describe the individual positions and IDs in the extended order code which are relevant to hazardous locations.

Device type

Position	Order code for	Selected option	Description
1	Instrument family	5	Electromagnetic flowmeter
2	Sensor	H, P, W ¹⁾	Sensor type
3	Transmitter	3	Transmitter type: 4-wire, compact version
4	Generation index	B	Platform generation
5, 6	Nominal diameter	Examples: 02, 04, 40, 50, 1H, 1Z, T0, E4 ^{2) 3)}	Nominal diameter of sensor

- 1) For replacement transmitter only: X
- 2) For the exact specification of the nominal diameter, see nameplate
- 3) For replacement transmitter only: XX

Basic specifications

Position 1, 2 Order code for "Approval" Selected option	Position 4, 5 Order code for "Output, input 1" Selected option	Type of protection	
		Transmitter	Sensor
US	BA, BB, GA, LA, MA, MB, NA, RA, RB, SA	Ex ec nC ic IIC T5...T1 Gc	Ex ec ic IIC T5...T1 Gc
	HA, MC, RC, TA	Ex ec nC ic ic IIC T5...T1 Gc	

Position	Order code for	Selected option	Description
4, 5	Output; input 1	BA	4-20mA HART
		GA	PROFIBUS PA
		HA	PROFIBUS PA Ex-i
		LA	PROFIBUS DP
		MA	Modbus RS485
		MB	Modbus TCP over Ethernet-APL/SPE, 10Mbit/s
		MC	Modbus TCP over Ethernet-APL, Ex-i, 10Mbit/s
		NA	EtherNet/IP 2-port switch integrated
		RA	PROFINET IO 2-port switch integrated
		RB	PROFINET over Ethernet-APL/SPE, 10Mbit/s

Position	Order code for	Selected option	Description
		RC	PROFINET over Ethernet-APL, Ex-i, 10Mbit/s
		SA	FOUNDATION Fieldbus
		TA	FOUNDATION Fieldbus Ex-i
6	Output; input 2	A	W/o
		B	4-20mA
		C	4-20mA Ex-i passive
		D	Configurable I/O initial setting off
		E	Pulse/frequency/switch output
		F	Pulse output, phase-shifted
		G	Pulse/frequency/switch output Ex-i passive
		H	Relay
		I	4-20mA input
		J	Status input
7	Output; input 3	A	W/o
		B	4-20mA
		C	4-20mA Ex-i passive
		D	Configurable I/O initial setting off
		E	Pulse/frequency/switch output
		F	Pulse output, phase-shifted
		G	Pulse/frequency/switch output Ex-i passive
		H	Relay
		I	4-20mA input
		J	Status input
8	Display; Operation	A	W/o; via communication
		F	4-line, illuminated; touch control
		G	4-line, illuminated; touch control + WLAN
		M	W/o; prepared for remote display DKX001
		O	Separate, with remote display DKX001, 4-line, illuminated; 10 m / 30 ft cable; touch control
9	Housing	A	Alu, coated
		B	Stainless, hygienic
11	Liner	A	PFA
		B	PFA High-temperature

Position	Order code for	Selected option	Description
		E	PTFE
		H	Hard rubber
		Q	PTFE 90°C
		U	Polyurethane
17, 18	Device Model	A1	1
		A2	2

Optional specifications

ID	Order code for	Selected option	Description
Cx	Sensor option	CG	Extended neck for insulation ¹⁾
Px	Enclosed accessories	P8	Wireless antenna, wide area (external WLAN antenna) ²⁾

1) Only for Promag W and Promag P available

2) The external WLAN antenna is available with the order code for "Accessory Enclosed", option P8.

Safety instructions: General

- Staff must meet the following conditions for mounting, electrical installation, commissioning and maintenance of the device:
 - Be suitably qualified for their role and the tasks they perform
 - Be trained in explosion protection
 - Be familiar with national regulations or guidelines (e.g. EN 60079-14)
- Install the device according to the manufacturer's instructions and national regulations.
- Do not operate the device outside the specified electrical, thermal and mechanical parameters.
- Use the device only in media where the wetted materials are known to be suitable.
- Refer to the temperature tables for the relationship between the permitted ambient temperature for the sensor and/or transmitter, depending on the range of application, and the temperature classes.

- Alterations to the device can affect the explosion protection and must be carried out by staff authorized to perform such work by Endress+Hauser.
- Observe all the technical data of the device (see nameplate).
- Avoid electrostatic charges which could result in electrostatic discharges while installing, operating, cleaning or maintaining:
 - For external non-metallic surfaces, e.g. housing, attached additional plates, RFID tag.
 - For attached external metallic parts that are not integrated into the local potential equalization system, e.g. nameplate tag, RFID tag.
 - Do not use in areas where the devices/electronic housing are exposed to highly charge-generating processes, pneumatically conveyed dusts and/or charge spraying in an electrostatic coating process.
 - Do not rub surfaces dry. Clean only with moist cloth.
 - Information on electrostatic hazards and how to minimize the generation of static electricity can be found in the technical specification IEC/TS 60079-32-1.

Safety instructions: Installation

General installation instructions

- The following applies for devices with order code for "Housing", Option B "Stainless, hygienic":
 - In the case of a horizontal orientation, install the transmitter at the side of or below the sensor.
 - Thermal insulation is not allowed.
 - To close the connection compartment cover, first hand-tight the cover and then tighten it further 45° (corresponds to 15 Nm).
- Continuous service temperature of the connecting cable: -40 to +85 °C; but at least according to the operating temperature range of the application plus allowance for process conditions ($T_{a, \min}$ and $T_{a, \max} + 20$ K).
- When the measuring device is connected, attention must be paid to the type of protection at the transmitter.
- Turning the transmitter housing
 - Loosen both hexagon socket screws until the transmitter housing can be turned.
 - Turn transmitter housing to desired position (mechanically limited); if necessary turn 270° in other direction.
 - Tighten both hexagon socket screws with a maximum of 7 Nm.

Installation in potentially explosive atmospheres

- Do not disconnect the electrical connection of the power supply circuit when energized.
- Do not open the connection compartment cover when the device is energized.
- Connection to or operation with Service interface (Port 2) is not permitted.

Use of cable glands, sealing plugs and thread adapters

- Only use Ex certified cable glands, sealing plugs and thread adapters that are suitable for the intended application (see nameplates).
- Plastic sealing plugs are mounted to cable entries and metallic thread extensions for temporary protection during transport and storage. These must be replaced with suitable Ex certified cable entry devices for permanent use.
- The mounted metallic thread extensions and sealing plugs are tested and certified as part of the device. These meet the device's specific requirements.
- Supplied Ex cable glands are separately certified and meet the device's specific requirements.
- All unused cable entries must be closed with suitable Ex certified sealing plugs.
- Observe selection criteria for Ex cable entry devices as per EN 60079-14.

Ex ec type of protection

- Only use separately certified cable glands, sealing plugs and thread adapters (Ex ec IIC) which are suitable for operating temperatures from -40 °C to +85 °C and for IP 66/67.
- The mounted metallic thread extensions and sealing plugs are tested and certified as part of the devices for the type of protection Ex ec IIC.
- The cables must be routed such that they are securely seated, and sufficient strain relief must be ensured.

Intrinsic safety

Observe the guidelines for interconnecting intrinsically safe circuits (e.g. EN 60079-14 , proof of intrinsic safety).

Remote display and operating module DKX001

- When using the remote display and operating module DKX001 the internal display and operating module must be removed.
- When connected to a separately ordered remote display and operating module DKX001, use only the following variants: Basic specification of the remote display and operating module DKX001, order code "Approval", option US
- Observe additional instructions in the Safety Instructions (XA) of the remote display and operating module DKX001.

Potential equalization

- The device must be connected to the potential equalization system using designated protective ground terminals.
- It is also possible to integrate the device into the potential equalization system through a pipe system, provided that the pipe system meets the grounding requirements of applicable national regulations.

Temperature tables

Minimum ambient temperature

$T_{a, \min} = -40\text{ °C}$ depending on the selected device version (see nameplate!).

Maximum ambient temperature

$T_{a, \max} = +60\text{ °C}$ depending on temperature class, maximum medium temperature and device-specific features. See the corresponding temperature tables.

Minimum medium temperature

$T_{m, \min} = -40\text{ to }0\text{ °C}$ depending on the selected device version (see nameplate!).

Maximum medium temperature for devices without thermal insulation or with thermal insulation in accordance with Endress+Hauser specifications

$T_{m, \max}$ varies depending on temperature class, maximum ambient temperature and device-specific features. See the corresponding temperature tables.

Promag H

DN	T _{a, max} [°C]	T _{m, max} [°C]					
		T6 [85 °C]	T5 [100 °C]	T4 [135 °C]	T3 [200 °C]	T2 [300 °C]	T1 [450 °C]
Without thermal insulation							
2...150	50	-	95 ¹⁾	130	150	150	150
	55 ²⁾	-	80 ¹⁾	130	150	150	150
	60 ²⁾	-	-	100	100	100	100

- 1) The maximum admissible ambient temperature changes for devices with order code for "Housing", Option B "Stainless, hygienic" in connection with temperature class T5: T_a = T_a - 3 K
- 2) T_{a, max} = 50 °C for optional specification, ID Cx (Sensor option) = CI (Fluid Temperature Probe)

Promag P

DN	Liner	T _{a, max} [°C]	T _{m, max} [°C]					
			T6 [85 °C]	T5 [100 °C]	T4 [135 °C]	T3 [200 °C]	T2 [300 °C]	T1 [450 °C]
Without thermal insulation								
15...600	PTFE	50	-	90	130	130	130	130
		55	-	-	130	130	130	130
		60	-	-	100	100	100	100
25...200	PFA	40	-	-	-	150	150	150
		45	-	95	130	130	130	130
		50	-	90	130	130	130	130
		60	-	-	100	100	100	100
Extended neck for insulation (Optional specification, ID Cx (Sensor Option) = CG), with or without thermal insulation								
15...300	PTFE	50	-	90	130	130	130	130
		55	-	-	130	130	130	130
		60	-	-	100	100	100	100
25...200	PFA	40	-	-	-	150	150	150
		45	-	95	130	130	130	130
		50	-	90	130	130	130	130
		60	-	-	100	100	100	100
High-temperature version (Order code for "Liner", option B) without thermal insulation								
25...200	PFA	45	-	95	130	180	180	180

DN	Liner	T _{a,max} [°C]	T _{m,max} [°C]					
			T6 [85 °C]	T5 [100 °C]	T4 [135 °C]	T3 [200 °C]	T2 [300 °C]	T1 [450 °C]
		50	-	90	130	160	160	160
		60	-	-	100	100	100	100
High-temperature version (Order code for "Liner", option B) with thermal insulation								
25...200	PFA	45	-	95	130	170	170	170
		50	-	90	130	160	160	160
		60	-	-	100	100	100	100

Promag W

DN	Liner	T _{a,max} [°C]	T _{m,max} [°C]					
			T6 [85 °C]	T5 [100 °C]	T4 [135 °C]	T3 [200 °C]	T2 [300 °C]	T1 [450 °C]
Without thermal insulation								
15...300	PTFE	50	-	90	130	130	130	130
		55	-	-	130	130	130	130
		60	-	-	100	100	100	100
50...3000	Hard rubber	50	-	80	80	80	80	80
		60	-	-	80	80	80	80
25...1000	PU	50	-	50	50	50	50	50
Extended neck for insulation (Optional specification, ID Cx (Sensor Option) = CG), with or without thermal insulation								
15...300	PTFE	50	-	95	130	130	130	130
		55	-	95	130	130	130	130
		60	-	-	100	100	100	100
50...300	Hard rubber	50	-	80	80	80	80	80
		60	-	-	80	80	80	80
25...1200	PU	50	-	50	50	50	50	50

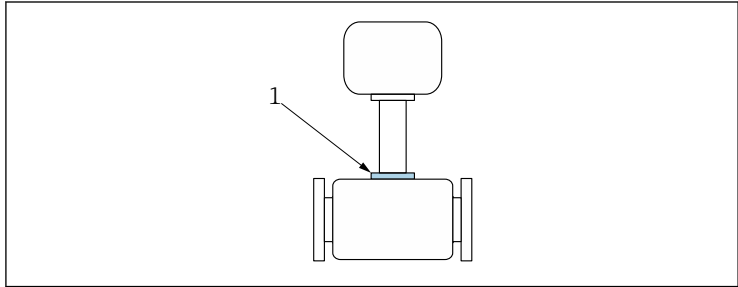
**Maximum medium temperature for devices with thermal insulation
NOT in accordance with Endress+Hauser specifications**

NOTICE

The following applies for devices with order code for "Housing",
Option B "Stainless, hygienic":

- ▶ Thermal insulation is not allowed.

The specified reference temperature T_{ref} and the maximum medium temperature $T_{m, max}$ for each temperature class must not be exceeded.



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- ☑ 1 High-temperature version or extension neck for insulation: position of reference point for temperature measurement

- 1 Reference point (T_{ref})

Reference temperature T_{ref}

T6 [85 °C]	T5 [100 °C]	T4 [135 °C]	T3 [200 °C]	T2 [300 °C]	T1 [450 °C]
–	62.2	74.0	75.6	75.6	75.6

Connection values: Signal circuits

The following tables contain specifications which are dependent on the transmitter type and its input and output assignment. Compare the following specifications with those on the nameplate of the transmitter.

Terminal assignment

Transmitter: supply voltage, input/outputs

HART

Supply voltage		Input/output 1 (Port 1)		Input/output 2		Input/output 3		Service interface (Port 2)
1 (+)	2 (-)	26 (+)	27 (-)	24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.								

FOUNDATION fieldbus

Supply voltage		Input/output 1 (Port 1)		Input/output 2		Input/output 3		Service interface (Port 2)
1 (+)	2 (-)	26 (A)	27 (B)	24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.								

PROFIBUS DP

Supply voltage		Input/output 1 (Port 1)		Input/output 2		Input/output 3		Service interface (Port 2)
1 (+)	2 (-)	26 (B)	27 (A)	24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.								

PROFIBUS PA

Supply voltage		Input/output 1 (Port 1)		Input/output 2		Input/output 3		Service interface (Port 2)
1 (+)	2 (-)	26 (B)	27 (A)	24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.								

Modbus RS485

Supply voltage		Input/output 1 (Port 1)		Input/output 2		Input/output 3		Service interface (Port 2)
1 (+)	2 (-)	26 (B)	27 (A)	24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.								

Modbus TCP

Supply voltage		Input/output 1 (Port 1) ¹⁾		Input/output 2		Input/output 3		Service interface (Port 2) ¹⁾
1 (+)	2 (-)	26 (+)	27 (-)	24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.								

1) For Modbus TCP communication, either port 1 OR port 2 can be used.

PROFINET

Supply voltage		Input/output 1 (Port 1) ¹⁾		Input/output 2		Input/output 3		Service interface (Port 2) ¹⁾
1 (+)	2 (-)	RJ45		24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.								

1) Port can be used for communication or as a service interface (CDI-RJ45).

PROFINET over Ethernet-APL

Supply voltage		Input/output 1 (Port 1)		Input/output 2		Input/output 3		Service interface (Port 2) ¹⁾
1 (+)	2 (-)	26 (+)	27 (-)	24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.								

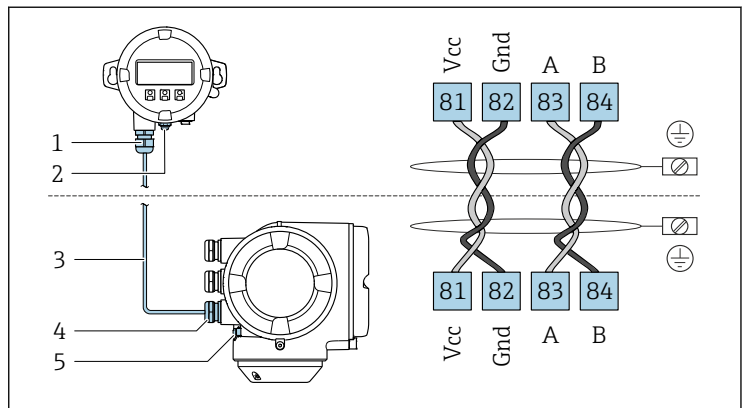
1) No PROFINET communication available on port 2

Ethernet/IP

Supply voltage		Input/output 1 (Port 1) ¹⁾	Input/output 2		Input/output 3		Service interface (Port 2) ¹⁾
1 (+)	2 (-)	RJ45	24 (+)	25 (-)	22 (+)	23 (-)	CDI-RJ45
Device-specific terminal assignment: adhesive label in terminal cover.							

1) Port can be used for communication or as a service interface (CDI-RJ45).

Remote display and operating module DKX001



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- 1 Remote display and operating module DKX001
- 2 Protective earth (PE)
- 3 Connecting cable
- 4 Measuring device
- 5 Protective earth (PE)

Safety-related values

Order code for "Output; input 1"	Output type	Safety-related values	
		Output; input 1 (Port 1)	Service interface (Port 2)
Option BA	Current output 4-20 mA HART	$U_N = 30 V_{DC}$ $U_M = 250 V_{AC}$	$U_N = 3.3 V_{AC}$ $U_M = 250 V_{AC}$
Option GA	PROFIBUS PA	$U_N = 32 V_{DC}$ $U_M = 250 V_{AC}$	$U_N = 3.3 V_{AC}$ $U_M = 250 V_{AC}$
Option LA	PROFIBUS DP	$U_N = 5 V$ $U_M = 250 V_{AC}$	$U_N = 3.3 V_{AC}$ $U_M = 250 V_{AC}$

Order code for "Output; input 1"	Output type	Safety-related values	
		Output; input 1 (Port 1)	Service interface (Port 2)
Option MA	Modbus RS485	$U_N = 5 \text{ V}$ $U_M = 250 \text{ V}_{AC}$	$U_N = 3.3 \text{ V}_{AC}$ $U_M = 250 \text{ V}_{AC}$
Option MB	Modbus TCP over Ethernet- APL 10 Mbit/s, SPE 10 Mbit/s, Ethernet 100 Mbit/s	APL port profile SLAX SPE PoDL classes 10, 11, 12 $U_N = 30 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	$U_N = 3.3 \text{ V}_{AC}$ $U_M = 250 \text{ V}_{AC}$
Option NA	EtherNet/IP	$U_N = 3.3 \text{ V}_{AC}$ $U_M = 250 \text{ V}_{AC}$	$U_N = 3.3 \text{ V}_{AC}$ $U_M = 250 \text{ V}_{AC}$
Option RA	PROFINET	$U_N = 3.3 \text{ V}_{AC}$ $U_M = 250 \text{ V}_{AC}$	$U_N = 3.3 \text{ V}_{AC}$ $U_M = 250 \text{ V}_{AC}$
Option RB	PROFINET over Ethernet- APL/SPE, 10Mbit/s	APL port profile SLAX SPE PoDL classes 10, 11, 12 $U_N = 30 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	$U_N = 3.3 \text{ V}_{AC}$ $U_M = 250 \text{ V}_{AC}$
Option SA	FOUNDATION Fieldbus	$U_N = 32 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	$U_N = 3.3 \text{ V}_{AC}$ $U_M = 250 \text{ V}_{AC}$

Order code for "Output; input 2" "Output; input 3"	Output type	Safety-related values	
		Output; input 2	Output; input 3
Option B	Current output 4-20 mA	$U_N = 30 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	
Option D	Configurable I/O initial setting off	$U_N = 30 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	
Option E	Pulse/frequency/switch output	$U_N = 30 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	
Option F	Double pulse output	$U_N = 30 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	
Option H	Relay output	$U_N = 30 \text{ V}_{DC}$ $I_N = 100 \text{ mA}_{DC}/500 \text{ mA}_{AC}$ $U_M = 250 \text{ V}_{AC}$	
Option I	Current input 4-20 mA	$U_N = 30 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	
Option J	Status input	$U_N = 30 \text{ V}_{DC}$ $U_M = 250 \text{ V}_{AC}$	

Intrinsically safe values

Order code for "Output; input 1"	Output type	Intrinsically safe values Output; input 1 (Port 1)
Option HA	PROFIBUS PA Ex i (STANDARD + FISCO)	$U_i = 32 \text{ V}$ $I_i = 570 \text{ mA}$ $P_i = 8.5 \text{ W}$ $L_i = 10 \text{ }\mu\text{H}$ $C_i = 5 \text{ nF}$
Option MC	Modbus TCP over Ethernet- APL, Ex-i, 10Mbit/s	2-WISE power load, APL port profile SLAC¹⁾ $U_i = 17.5 \text{ V}$ $I_i = 380 \text{ mA}$
Option RC	PROFINET over Ethernet- APL, Ex-i, 10Mbit/s	$P_i = 5.32 \text{ W}$ $L_i = 10 \text{ }\mu\text{H}$ $C_i = 5 \text{ nF}$ Cable specifications according to 2-WISE: $R_c = 15 \text{ to } 150 \text{ }\Omega/\text{km}$ $L_c = 0.4 \text{ to } 1 \text{ mH}/\text{km}$ $C_c = 45 \text{ to } 200 \text{ nF}/\text{km}$ $C_c = C_c \text{ line}/\text{line} + 0,5 C_c \text{ line}/\text{screen}$, if both lines are floating, or $C_c = C_c \text{ line}/\text{line} + C_c \text{ line}/\text{screen}$, if the screen is connected to one line Length of cable (not including cable stubs): $\leq 200 \text{ m}$ (656.2 ft) Length of cable stubs: $\leq 1 \text{ m}$ (3.3 ft)
Option TA	FOUNDATION Fieldbus Ex i (STANDARD + FISCO)	$U_i = 32 \text{ V}$ $I_i = 570 \text{ mA}$ $P_i = 8.5 \text{ W}$ $L_i = 10 \text{ }\mu\text{H}$ $C_i = 5 \text{ nF}$

1) For further options see Ethernet-APL Installation Drawing HE_01622.

Order code for "Output; input 2" "Output; input 3"	Output type	Intrinsically safe values	
		Output; input 2	Output; input 3
Option C	Current output 4-20mA Ex-i passive	$U_i = 30 \text{ V}$ $I_i = 100 \text{ mA}$ $P_i = 1.25 \text{ W}$ $L_i = 0$ $C_i = 0$	
Option G	Pulse/frequency/switch output Ex-i passive	$U_i = 30 \text{ V}$ $I_i = 100 \text{ mA}$ $P_i = 1.25 \text{ W}$ $L_i = 0$ $C_i = 0$	

Remote display and operating module DKX001

Basic specifications Position 1, 2 Order code for "Approval" Selected option	Terminal assignment	Basic specifications Position 8 Order code "Display; operation" Option O
Option US	81, 82, 83, 84	$U_n = 3.3 \text{ V}$ $I_n = 150 \text{ mA}$



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