Safety Instructions **Proline Cubemass 300**

JPN: Zone 0/1 Zone 21



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Services

Proline Cubemass 300

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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 device	Documentation code	Ocumentation code					
	HART FOUNDATION PF		PROFIBUS PA	PROFIBUS DP			
Cubemass C 300	BA01483D	BA01516D	BA01505D	BA01856D			

Measuring device	Documentation code				
	Modbus RS485	EtherNet/IP	PROFINET		
Cubemass C 300	BA01494D	BA01726D	BA01737D		

Additional documentation

Contents	Document type	Documentation code
Remote display and operating module	Special documentation	SD01763D
DKX001	Safety Instructions Ex ia, Ex tb	XA01781D
Explosion Protection	Brochure	CP00021Z/11
Ethernet-APL Installation Drawing	Installation Drawing	HE_01622

Please note the documentation associated with the device.

Certificates and declarations

JPN Type Examination Certificate

Certificate number:

CML 17JPN2346X

Affixing the certificate number certifies conformity with the standards (depending on the device version).

- INIOSH-TR-46-1: 2020
- JNIOSH-TR-46-2: 2018
- JNIOSH-TR-46-6: 2015
- JNIOSH-TR-46-9: 2018
- IEC 60079-26: 2021

Certificate holder

Endress+Hauser Flowtec AG

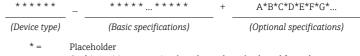
Kägenstrasse 7 4153 Reinach BL

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



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. IA). 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	Option selected	Description
1	Instrument family	8	Coriolis flowmeter
2	Sensor C 1)		Sensor type
3	Transmitter	3	Transmitter type: 4-wire, compact version
4	Generation index	В	Platform generation
5, 6	Nominal diameter	Examples: 02, 04, 40, 50, 1H, 3E ^{2) 3)}	Nominal diameter of sensor

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

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
JD	BA, BB, GA, LA, MA, MB, NA, RA, RB, SA	Ex db ia IIC T6T1 Ga/Gb Ex tb IIIC T**°C Db ¹⁾	Ex ia IIC T6T1 Ga/Gb Ex ia tb IIIC T**°C Db 1)
	CA, CC, HA, MC, RC, TA	Ex db ia [ia Ga] IIC T6T1 Ga/Gb Ex tb [ia Da] IIIC T**°C Db ¹⁾	

1) The marking may be applied depending on users' applications.

Position	Order code for	Option selected	Description
4, 5	Output, input 1	BA	4-20mA HART
		CA	4-20mA HART Ex-i passive
		СС	4-20mA HART Ex-i active
		GA	PROFIBUS PA
		НА	PROFIBUS PA Ex-i
		LA	PROFIBUS DP
		MA	Modbus RS485
		MB	Modbus TCP with Ethernet-APL
		MC	Modbus TCP with Ethernet-APL Ex i
		NA	EtherNet/IP 2-port switch integrated
		RA	PROFINET IO 2-port switch integrated
		RB	PROFINET with Ethernet-APL

Position	Order code for	Option selected	Description
		RC	PROFINET with Ethernet-APL Ex i
		SA	FOUNDATION Fieldbus
		TA	FOUNDATION Fieldbus Ex-i
6	Output, input 2	A	W/o
		В	4-20mA
		С	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
		Н	Relay
		I	4-20mA input
		J	Status input
7	Output, input 3	A	W/o
		В	4-20mA
		С	4-20mA Ex-i passive
		D	Configurable I/O initial setting off
		Е	Pulse/frequency/switch output
		F	Pulse output, phase-shifted
		G	Pulse/frequency/switch output Ex-i passive
		Н	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 1)
		0	Separate, with remote display DKX001 $^{1)}$, 4-line, illuminated; 10 m / 30 ft cable; touch control
9	Housing	A	Alu, coated
17, 18	Device Model	A1	1
		A2	2

¹⁾ DKX001 is approved according to CML 17JPN2349.

Optional specifications

ID	Order code for Option selected		Description
Jx	Test, certificate	JP	Ambient temperature measuring device −50 °C

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. JNIOSH-TR-NO.44)
- 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.
- Only use the device in media to which the wetted materials have sufficient durability.
- 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.
- When using in hybrid mixtures (gas and dust occurring simultaneously), observe additional measures for explosion protection.
- Open the housing cover of the transmitter housing in explosion protection Ex db only if one of the following conditions is met:
 - An explosive atmosphere is not present.
 - A waiting time of 10 minutes is observed after switching off the power supply.

The following warning notice is on the device: WARNING – AFTER DE-ENERGIZING, DELAY 10 MINUTES BEFORE OPENING ENCLOSURE IN TYPE OF PROTECTION EX D

- In devices with damaged Ex d threads:
 - Use in hazardous areas is not permitted.
 - Repair of Ex d threads is not permitted.
- Observe all the technical data of the device (see nameplate).

Safety instructions: Installation

■ Continuous service temperature of the connecting cable: -40 to +80 °C (-50 to +80 °C for optional specifications, ID Jx (Test, Certificate) = JP); in accordance with the range of service temperature taking into account additional influences of the process conditions ($T_{a.min}$ and $T_{a.max} + 20$ K).

- Only use certified cable entries suitable for the application. Observe selection criteria as per JNIOSH-TR-NO.44.
- The following applies when connecting the transmitter with a connection compartment in Ex db:

Only use separately certified cables and wire entries (Ex db IIC) which are suitable for operating temperatures up to $85\,^{\circ}$ C and for IP 66/67. If using conduit entries, the associated sealing mechanisms must be mounted directly on the housing.

Plastic sealing plugs act as transport protection and have to be replaced by suitable, individually approved installation material. The mounted metal thread extensions and blind plugs are tested and certified as part of the housing for type of protection Ex db IIC. The thread extension or the blind plug labeled as follows for identification purposes:

■ Md: M20 x 1.5

d: NPT ½"
 Gd: G ½"

- The following cable glands approved by an Ex certification body may be installed on the device (for details, contact our service center):
 - Ex d, Ex t approved cable glands, e.g. EXTC-16MG
 - Ex d approved cable glands, e.g. KXBF-20·16
- Yellow cap attached to the cable glands is a transportation measure only, and is to be removed when the delivered device is installed.
- If the third cable gland is not used, remove it and seal the thread hole with Ex d blind plug (M20 x 1.5).
- Information on our service center: Service Desk, 5-70-3 Nisshin-cho, Fuchu-shi, Tokyo-to

Tel: 042-314-1911 Fax: 042-314-1951

- When the measuring device is connected, attention must be paid to explosion 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.

 When connecting through a conduit entry approved for this purpose, mount the associated sealing unit directly at the enclosure.

- Seal unused entry glands with approved sealing plugs that correspond to the type of protection. The plastic transport sealing plug does not meet this requirement and must therefore be replaced during installation.
- Only use certified sealing plugs. The metal sealing plugs supplied meet this requirement.

Intrinsic safety

- Observe the guidelines for interconnecting intrinsically safe circuits (e.g. JNIOSH-TR-NO.44).
- When the intrinsically safe Ex ia circuits of the device are connected to certified intrinsically safe circuits of Category Ex ib for Equipment Groups IIC or IIB, the type of protection changes to Ex ib IIC or Ex ib IIB.
- The device can be connected to the remote display DKX001 which has explosion protection: refer to the Special documentation and Ex documentation.



- When using the remote display and operating module DKX001 the internal display and operating module must be removed.
- When using the separate approved, remote display and operating module DKX001, only use the following variants:
 Basic specification of the remote display and operating module DKX001, order code "Approval", option JE, JF, JG

Potential equalization

- Integrate the device into the potential equalization .
- If the ground connection has been established via the pipe as specified, it is also possible to integrate the sensor into the potential equalization system via the pipe.

Safety instructions: Zone 0 Install the transmitter electronics in Zone 1. For sensors with EPL Ga/Gb the zone 0 is permitted in the measuring tube.

Safety instructions: Zone 21

 To ensure dust-tightness, securely seal all housing openings, cable entries and sealing plugs.

- Only open all housing briefly, ensuring that no dust or moisture enters the housing.
- Only use certified cable entries. The metal cable entries, extensions and sealing plugs supplied meet this requirement.
- The metal extensions and blind plugs supplied are tested and certified as part of the enclosure for explosion protection Ex tb IIIC. Plastic sealing plugs in extensions act as transport protection and have to be replaced by suitable, individually approved installation material. Supplied cable glands are separately certified and marked as components and meet device specification requirements.
- If the transmitter is connected to the remote display and operating module DKX001, the circuit has Ex ia IIIC explosion protection.
 Connection values . DKX001→

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Temperature tables

Ambient temperature

Minimum ambient temperature

- $T_a = -40 \, ^{\circ}\text{C}$
- Optional specification, ID Jx (Test, Certificate) = JP
 T_a = -50 °C depending on the selected device variant (see nameplate)

Maximum ambient temperature

 T_{a} = +60 $^{\circ}\text{C}$ depending on the medium temperature and temperature class

Medium temperature

Minimum medium temperature

$$T_{\rm m} = -50 \, {\rm ^{\circ}C}$$

Maximum medium temperature

- T_m for T6...T1 depending on the maximum ambient temperature T_a
- () = The maximum permitted medium temperatures in brackets only apply if the sensor is installed in such a way that the transmitter is not mounted above the sensor and free convection can occur on all sides

Compact version

NOTICE

In case of heating, risk of overheating.

- ► On devices with Heating jacket the corresponding temperature tables for isolated sensor, are to be observed.
- ► Make sure that the heating medium, may not exceeded the maximum specified medium temperature of the exact used temperature classes of the device.

Maximum medium temperature without thermal insulation according to Endress+Hauser specifications

DN	Ta	T _{m, max}		T _m [°C]				
	[°C]	[°C]	T6 [85 °C]	T5 [100 °C]	T4 [135 °C]	T3 [200 °C]	T2 [300 °C]	T1 [450 ℃]
16	50	205	50	95	130	150	205	205
	60		ı	95	130	150	205	205

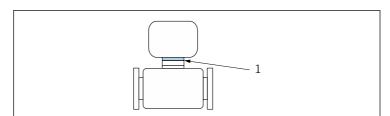
> Maximum medium temperature with thermal insulation according to Endress+Hauser specifications



For information on the thermal insulation of the device, see the "Thermal insulation" section of the "Operating instructions" document.

DN	T _a	T _{m, max}		T _m [°C]				
	[°C]	[°C]	T6 [85 ℃]	T5 [100°C]	T4 [135 ℃]	T3 [200 °C]	T2 [300 °C]	T1 [450 ℃]
16	50	205	-	95	130	150	205	205
	55		-	(95)	(130)	(150)	(205)	(205)

With thermal insulation without Endress+Hauser specifications



A0031667

- $\blacksquare 1$ Position of reference point for temperature measurement
- 1 Reference point (T_{ref})

Reference temperature T_{ref}

T6	T5	T4	T3	T2	T1
[85 ℃]	[100°C]	[135 ℃]	[200 ℃]	[300 ℃]	[450 °C]
59	72	75	76	77	77

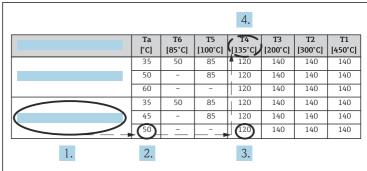
Explosion hazards arising from gas and dust

Determining the temperature class and surface temperature with the temperature table

- In the case of gas: Determine the temperature class as a function of the maximum ambient temperature T_a and the maximum medium temperature T_m .
- In the case of dust: Determine the maximum surface temperature as a function of the maximum ambient temperature T_a and the maximum medium temperature T_m .

Example

- Measured maximum ambient temperature: $T_{ma} = 47 \, ^{\circ}\text{C}$
- Measured maximum medium temperature: $T_{mm} = 108 \, ^{\circ}\text{C}$



.....

- 1. Select device (optional).
- 2. In the column for the maximum ambient temperature T_a select the temperature that is immediately greater than or equal to the maximum ambient temperature T_{ma} that is present.
 - $T_a = 50$ °C. The row showing the maximum medium temperature is determined.
- 3. Select the maximum medium temperature $T_{\rm m}$ of this row, which is immediately greater than or equal to the maximum medium temperature $T_{\rm mm}$ that is present.
 - $^{\mbox{\tiny L-}}$ The column with the temperature class for gas is determined: 108 °C \leq 120 °C \rightarrow T4.
- 4. The maximum temperature of the temperature class determined corresponds to the maximum surface temperature for dust: T4 = 135 °C.

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/o	utput 1	Input/o	utput 2	Input/o	utput 3
1 (+)	2 (-)	26 (+)	27 (-)	24 (+)	25 (-)	22 (+)	23 (-)
		Device-s	pecific term	inal assignr cov		ive label in	terminal

FOUNDATION Fieldbus

Supply voltage		Input/o	output 1	Input/output 2		Input/output 3	
1 (+)	2 (-)	26 (A)	27 (B)	24 (+)	25 (-)	22 (+)	23 (-)
		Device-s	pecific term	inal assignr cov		ive label in	terminal

PROFIBUS DP

Supply	voltage	Input/o	utput 1	Input/o	utput 2	Input/o	utput 3
1 (+)	2 (-)	26 (B)	27 (A)	24 (+)	25 (-)	22 (+)	23 (-)
		Device-s	pecific term	inal assignr cov		ive label in	terminal

PROFIBUS PA

Supply	voltage	Input/o	nput/output 1 Input/output 2		Input/output 3		
1 (+)	2 (-)	26 (B)	27 (A)	24 (+)	25 (-)	22 (+)	23 (-)
		Device-s	pecific term	inal assignr cov		ive label in	terminal

Modbus RS485

Supply	voltage	Input/o	output 1	Input/o	utput 2	Input/o	utput 3
1 (+)	2 (-)	26 (B)	27 (A)	24 (+)	25 (-)	22 (+)	23 (-)
		Device-s	specific term	inal assignr cov		ive label in	terminal

Modbus TCP with Ethernet-APL

Suppl	y voltage	Input/o	output 1	Input/output 2		tput 1 Input/output 2 Input/output 3		utput 3
1 (+)	2 (-)	26 (+)	27 (-)	24 (+)	25 (-)	22 (+)	23 (-)	
		Device-specific terminal assignment: adhesive label in terminal						
				COV	rer.			

PROFINET

Suppl	y voltage	Input/output 1	Input/output 2		Input/output 3	
1 (+)	2 (-)	PROFINET (RJ45 connector)	Device	25 (–) -specific ter esive label ir		

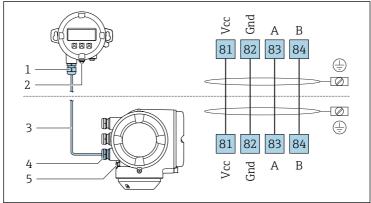
PROFINET with Ethernet-APL

Supply	voltage	Input/o	output 1	Input/output 2		Input/output 3	
1 (+)	2 (-)	26 (+)	27 (-)	24 (+)	25 (-)	22 (+)	23 (-)
		Device-s	pecific term	inal assignr cov		ive label in	terminal

EtherNet/IP

Supply	voltage	Input/output 1	Input/output 2		Input/output 3	
1 (+)	2 (-)	EtherNet/IP (RJ45 connector)	Device	-specific ter	22 (+) minal assign terminal co	

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"		
		26 (+)	27 (-)	
Option BA	Current output 4 to 20 mA HART	$U_{N} = 30 V_{DC}$ $U_{M} = 250 V_{AC}$		
Option GA	PROFIBUS PA	$U_{N} = 32 V_{DC}$ $U_{M} = 250 V_{AC}$		
Option LA	PROFIBUS DP	$U_{N} = 32 V_{DC}$ $U_{M} = 250 V_{AC}$		
Option MA	Modbus RS485	$U_{N} = 30 V_{DC}$ $U_{M} = 250 V_{AC}$		
Option MB	Modbus TCP with Ethernet-APL	APL port profile SLAX SPE PoDL classes 10, 1 $U_N = 30 \ V_{DC}$ $U_M = 250 \ V_{AC}$		
Option SA	FOUNDATION Fieldbus	$U_{N} = 32 V_{DC}$ $U_{M} = 250 V_{AC}$		
Option NA	EtherNet/IP	$U_{N} = 30 V_{DC}$ $U_{M} = 250 V_{AC}$		

Order code for "Output; input 1"	Output type	Safety-related values "Output; input 1"			
		26 (+)	27 (-)		
Option RA	PROFINET	$U_N = 30 V_{DC}$ $U_M = 250 V_{AC}$			
Option RB	PROFINET with Ethernet-APL	APL port profile SLAX SPE PoDL classes 10, $U_N = 30 \ V_{DC}$ $U_M = 250 \ V_{AC}$			

Order code for	Output type	Safety-related values			
"Output; input 2"; "Output; input 3"		Output; input 2 Output; inp		input 3	
		24 (+)	25 (-)	22 (+)	23 (-)
Option B	Current output 4 to 20 mA	$U_N = 30 V_{DC}$ $U_M = 250 V_{AC}$			
Option D	User-configurable input/output	$U_{N} = 30 V_{DC}$ $U_{M} = 250 V_{AC}$			
Option E	Pulse/frequency/ switch output	$U_{N} = 30 V_{DC}$ $U_{M} = 250 V_{AC}$			
Option F	Double pulse output	$U_{N} = 30 V_{DC}$ $U_{M} = 250 V_{AC}$			
Option H	Relay output	$U_{N} = 30 V_{DC}$ $I_{N} = 100 \text{ mA}_{DC} / 500 \text{ mA}_{AC}$ $U_{M} = 250 V_{AC}$			
Option I	Current input 4 to 20 mA	$\begin{array}{l} U_N = 30 \ V_{DC} \\ U_M = 250 \ V_{AC} \end{array}$			
Option J	Status input	$\begin{array}{c} U_N = 30 \ V_{DC} \\ U_M = 250 \ V_{AC} \end{array}$			

Intrinsically safe values

Order code for "Output; input 1"	Output type	Intrinsically safe values "Output; input 1"		
		26 (+)	27 (-)	
Option CA	Current output 4-20mA HART Ex-i passive	$\begin{split} &U_{i} = 30 \ V \\ &I_{i} = 100 \ mA \\ &P_{i} = 1.25 \ W \\ &L_{i} = 0 \ \mu H \\ &C_{i} = 6 \ nF \end{split}$		
Option CC	Current output 4-20mA HART Ex-i active	$ \begin{aligned} \mathbf{Ex} & \mathbf{ia} \\ & U_0 = 21.8 \ V \\ & l_0 = 90 \ mA \\ & P_0 = 491 \ mW \\ & L_0 = 4.1 \ mH(IIC) / \\ & 15 \ mH(IIB) \\ & C_0 = 160 \ nF(IIC) / \\ & 1160 \ nF(IIB) \\ & U_i = 30 \ V \\ & l_i = 10 \ mA \\ & P_i = 0.3 \ W \\ & L_i = 5 \ \mu H \\ & C_i = 6 \ nF \end{aligned} $		
Option HA	PROFIBUS PA Ex i (STANDARD + FISCO)	$\begin{aligned} &\textbf{Ex ia} \\ &\textbf{U}_i = 30 \text{ V} \\ &\textbf{l}_i = 570 \text{ mA} \\ &\textbf{P}_i = 8.5 \text{ W} \\ &\textbf{L}_i = 10 \mu\text{H} \\ &\textbf{C}_i = 5 \text{ nF} \end{aligned}$		

Order code for "Output; input 1"	Output type	Intrinsically safe values "Output; input 1"		
		26 (+)	27 (-)	
Option MC	Modbus TCP with Ethernet-APL Ex i	2-WISE power load, APL port profile SLAA 1)		
Option RC	PROFINET with Ethernet-APL Ex i	SLAA ¹⁾ Ex ia $U_i = 17.5 \text{ V}$ $I_i = 380 \text{ mA}$ $P_1 = 5.32 \text{ W}$ $L_i = 10 \text{ μH}$ $C_i = 5 \text{ nF}$ Cable specifications according to 2-WIS $R_c = 15 \text{ to } 150 \Omega/\text{km}$ $L_c = 0.4 \text{ to } 1 \text{ mH/km}$ $C_c = 45 \text{ to } 200 \text{ nF/km}$ $C_c = C_c \text{ line/line} + 0.5 C_c \text{ line/screen, if be lines are floating, or}$ $C_c = C_c \text{ line/line} + C_c \text{ line/screen, if the screen is connected to one line}$ Length of cable (not including cable stub $\leq 200 \text{ m } (656.2)$ Length of cable stubs: $\leq 1 \text{ m } (3.3 \text{ ft})$		
Option TA	FOUNDATION Fieldbus Ex i (STANDARD + FISCO)	$\begin{aligned} &\textbf{Ex ia} \\ &\textbf{U}_i = 30 \text{ V} \\ &\textbf{l}_i = 570 \text{ mA} \\ &\textbf{P}_i = 8.5 \text{ W} \\ &\textbf{L}_i = 10 \mu\text{H} \\ &\textbf{C}_i = 5 \text{ nF} \end{aligned}$		

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

Order code for	Output type	Intrinsically safe values			s
"Output; input 2"; "Output; input 3"		Output; input 2 Output; input 3		input 3	
		24 (+)	25 (-)	22 (+)	23 (-)
Option C	Current output 4 to 20 mA Ex i passive	$\begin{aligned} &U_i = 30 \text{ V} \\ &l_i = 100 \text{ m.} \\ &P_i = 1.25 \text{ V} \\ &L_i = 0 \\ &C_i = 0 \end{aligned}$			
Option G	Pulse/frequency/ switch output Ex i passive	$U_{i} = 30 \text{ V}$ $l_{i} = 100 \text{ m.}$ $P_{i} = 1.25 \text{ V}$ $L_{i} = 0$ $C_{i} = 0$			

Remote display DKX001

Basic specification, position 1, 2 Approval	Terminal assignment	Basic specification, position 8 Display; Operation Option O	
Option ¹⁾ JD	81, 82, 83, 84	A connecting cable with the value L/R \leq $24~\mu H/\Omega$ and $C_{cable} \leq 1000$ nF must be used for the version for connecting to the remote display DKX001 or ODKX001. The cable supplied meets this requirement.	

1) With separate order of DKX001: JE, JF, JG





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