

Made in Russia 

**Transducers
TIK-DSA
Classifier
421421.000 K1**

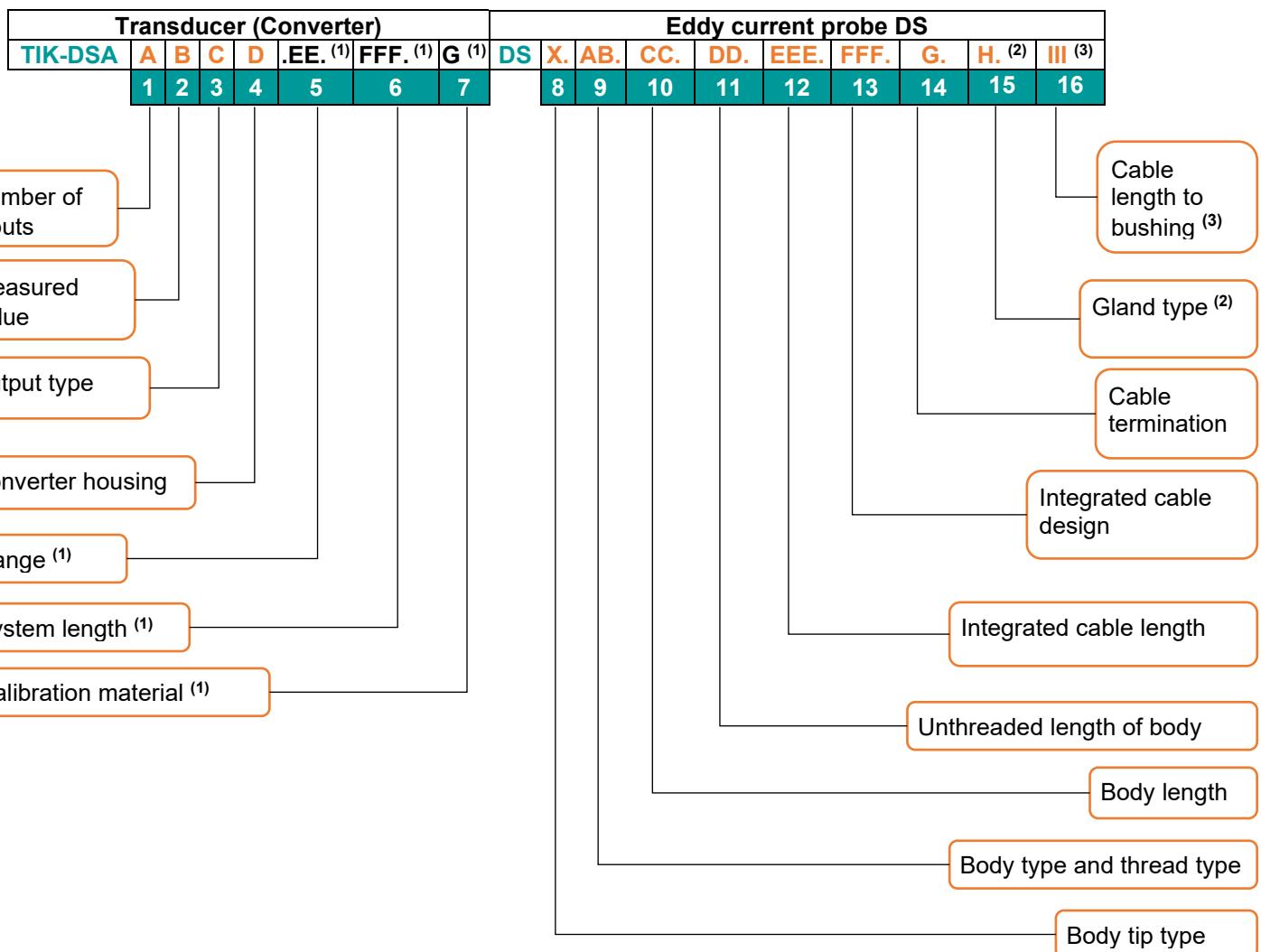
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Transducer TIK-DSA

The transducer TIK-DSA is designed to measure vibration displacement, gap, rotation speed on the controlled object and convert them into standard signals. It can also be used as a phase reference signal source/

The transducer includes: proximity probes (eddy current type) DS0, DS1, DS2, DS3 and transducer (converter) DSA



Note:

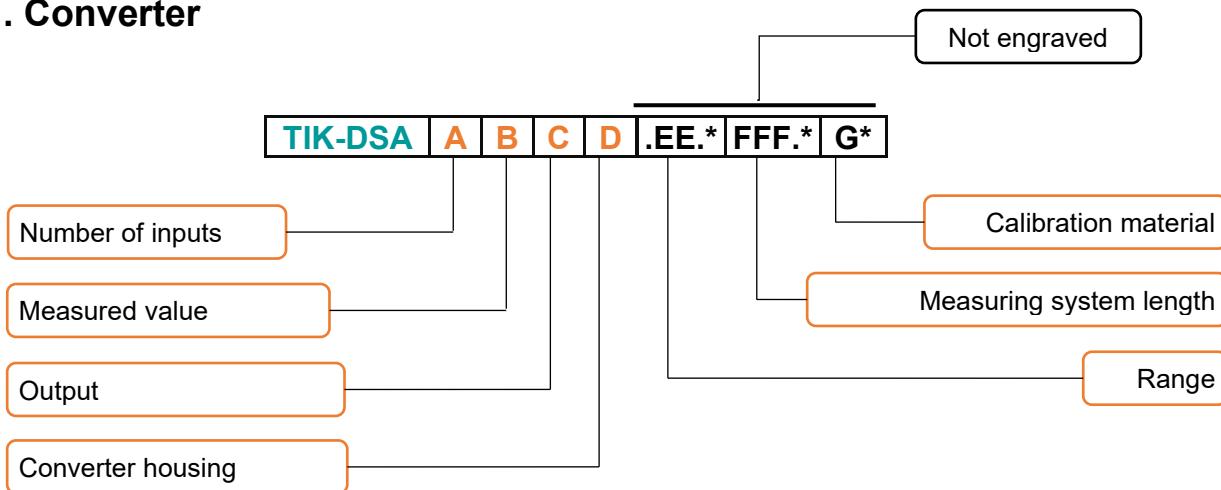
- Registers "E", "F" and "G" of the transducer (converter) in the encoding are not used or engraved in case of ordering.
- The "H" register is only for probes with a cylindrical straight body with a converter on the cable.
- The "I" register is only for probes with a cylindrical straight body with a converter on the cable.

- Table 1. Existing transducers (converters)

Description					Probe DS	Number of channels	Measured value	Output signal	Supply voltage	Converter housing
TIK-DSA	1	3	1	1	DSX	One	Vibration displacement	Passive output, 4-20 mA current loop	12 to 24 V	Plastic housing on a DIN rail
TIK-DSA	1	3	1	5	DSX	One	Vibration displacement	Passive output, 4-20 mA current loop	12 to 24 V	On the cable
TIK-DSA	1	3	5	2	DSX	One	Vibration displacement	Two outputs: active current (4-20 mA); voltage (0...+10 V). With separate power supply	12 to 24 V	Plastic housing with display on the DIN rail
TIK-DSA	1	3	7	1	DSX	One	Vibration displacement	Digital RS-485	12 to 24 V	Plastic housing on a DIN rail
TIK-DSA	1	4	1	1	DSX	One	Gap with averaging	Passive output, 4-20 mA current loop	12 to 24 V	Plastic housing on a DIN rail
TIK-DSA	1	4	1	5	DSX	One	Gap with averaging	Passive output, 4-20 mA current loop	12 to 24 V	On the cable
TIK-DSA	1	4	5	2	DSX	One	Gap with averaging	Two outputs: active current (4-20 mA); voltage (0...+10 V). With separate power supply	12 to 24 V	Plastic housing with display on the DIN rail
TIK-DSA	1	4	7	1	DSX	One	Gap with averaging	Digital RS-485	12 to 24 V	Plastic housing on a DIN rail
TIK-DSA	1	5	1	1	DSX	One	Revolutions per minute (RPM)	Passive output, 4-20 mA current loop	12 to 24 V	Plastic housing on a DIN rail
TIK-DSA	1	5	1	5	DSX	One	Revolutions per minute (RPM)	Passive output, 4-20 mA current loop	12 to 24 V	On the cable
TIK-DSA	1	5	5	2	DSX	One	Revolutions per minute (PRM)	Two outputs: active current (4-20 mA); voltage (0...+10 V). With separate power supply	12 to 24 V	Plastic housing with display on the DIN rail
TIK-DSA	1	5	7	1	DSX	One	Revolutions per minute (RPM)	Digital RS-485	12 to 24 V	Plastic housing on a DIN rail
TIK-DSA	1	6	5	2	DSX	One	Vibration displacement /gap/RPM	Two outputs: active current (4-20 mA); voltage (0...+10 V). With separate power supply	12 to 24 V	Plastic housing with display on the DIN rail

Description					Probe DS	Number of channels	Measured value	Output signal	Supply voltage	Converter housing
TIK-DSA	1	6	7	1	DSX	One	Vibration displacement /gap/ RPM	Digital RS-485	12 to 24 V	Plastic housing on a DIN rail
TIK-DSA	1	7	1	1	DSX	One	Gap	Passive output, current loop 4-20 mA	12 to 24 V	Plastic housing on a DIN rail
TIK-DSA	1	7	1	5	DSX	One	Gap	Passive output, 4-20 mA current loop	12 to 24 V	On the cable
TIK-DSA	1	7	4	1	DSX	One	Gap	By voltage, linear part of range (-1...-17) V, (-1.6...-17.6) V	-22,8 to -25,2 V	Plastic housing on a DIN rail
TIK-DSA	1	7	5	2	DSX	One	Gap	Two outputs: active current (4-20 mA); voltage (0...+10 V). With separate power supply	12 to 24 V	Plastic housing with display on the DIN rail

1. Converter



* "E", "F" and "G" registers in the encoding are not used or engraved in case of ordering.

Encoding description

A Number of inputs	
1	One
2	-
B Measured value	
1	-
2	-
3	Vibration displacement (P-P evaluation)
4	Gap (average evaluation)
5	Rotation speed (RPM)
6	Vibration displacement /gap/rotation speed
7	Gap
C Output	
1	Passive output, 4-20 mA current loop
3	Voltage (0...+10 V)
4	Voltage, linear part of range (-1...-17 V), (-1.6...-17.6 V)
5	Two outputs: active current (4-20 mA); voltage (0...+10 V). With separate power supply
7	Digital RS-485
D Type of converter housing (Appendix A)	
1	Plastic housing on a DIN rail
2	Plastic housing with display on the DIN rail
3	Plastic housing on a DIN rail (with an SMA connector)
4	-
5	Housing on the cable with connector TIK-KXX

E	E	Range ⁽⁴⁾			E	E	Range ⁽⁴⁾		
0	1	0-100 µm (Vibration displacement)			1	4	0,25-2,50 mm (Gap)		
0	2	0-125 µm (Vibration displacement)			1	5	0,25-2,75 mm (Gap)		
0	3	0-250 µm (Vibration displacement)			1	6	0,5-2,5 mm (Gap)		
0	4	0-500 µm (Vibration displacement)			1	7	0,3-4,3 mm (Gap)		
0	5	0-1000 µm (Vibration displacement)			1	8	0,5-4,5 mm (Gap)		
0	6	0-2000 µm (Vibration displacement)			1	9	0,5-5,5 mm (Gap)		
1	0	0,15-2,15 mm (Gap)			2	0	5,5-9,5 mm (Gap)		
1	1	0,2-2,2 mm (Gap)			2	1	1,0-9,0 mm (Gap)		
1	2	0,25-2,25 mm (Gap)			3	0	5-100000 rpm (Rotational speed)		
1	3	0,25-2,30 mm (Gap)							
F	F	F	Measuring system length ⁽⁴⁾						
0	5	0	5,0 m						
0	7	0	7,0 m						
1	0	0	10,0 m						
G	Calibration material ⁽⁴⁾								
40X ⁽¹⁾		38ХН3МФА	38Х2Н2МА	30Х13	20Х13	Ст3пс	20		
45		38ХМ ⁽³⁾	40ХН2МА	12ХН3А	42ХФА ⁽³⁾	07Х16Н4Д4Б	35		
08Х18Н10Т		18Х2Н4ВА	09Г2С	12Х18Н10Т	SM45C	SD1.4501	X ⁽²⁾		

Notes:

1. If the material type is not specified in the order, 40X steel (G = 40X) will be used for calibration.
2. Calibration for other materials can be performed on request, provided that a sample is provided (a disc with a diameter of at least 70 mm and a thickness of 20 mm).
3. Equivalent of AISI 4140 (42CrMo4 / 1.7225).
4. Registers are not used in the encoding in case of ordering and not engraved. These parameters are indicated on the label.

Example of order:

TIK-DSA1311

Transducer TIK-DSA with one input. Measured value is the vibration displacement in Peak-to-Peak evaluation. Output signal is a 4-20 mA current loop. Housing is on a DIN rail.

- Table 2. Matching table probe type and transducers DSA13xx, DSA14xx, DSA15xx (transmitter) and indication range.

Type of measurement	Output signal	Indication range	Conversion factor	Eddy current probe							
				DS0	DS1	DS2	DS3				
Vibration displacement (P-P) (B = 3)	Passive output 4-20 mA current loop	EE = 01 0-100 µm	0,16 mA/µm	Yes	Yes	Yes	Yes				
		EE = 02 0-125 µm	0,128 mA/µm								
		EE = 03 0-250 µm	0,064 mA/µm								
		EE = 04 0-500 µm	0,032 mA/µm								
		EE = 05 0-1000 µm	0,016 mA/µm								
		EE = 06 0-2000 µm	0,008 mA/µm								
	Voltage (0...+10 V)	EE = 01 0-100 µm	0,1 V/µm								
		EE = 02 0-125 µm	0,08 V/µm								
		EE = 03 0-250 µm	0,04 V/µm								
		EE = 04 0-500 µm	0,02 V/µm								
		EE = 05 0-1000 µm	0,01 V/µm								
		EE = 06 0-2000 µm	0,005 V/µm								
	Digital RS-485	EE = 01 0-100 µm									
		EE = 02 0-125 µm									
		EE = 03 0-250 µm									
		EE = 04 0-500 µm									
		EE = 05 0-1000 µm									
		EE = 06 0-2000 µm									
Gap (aver.) (B = 4)	Passive output, 4-20 mA current loop	EE = 10 0,15-2,15 mm	8 mA/mm	Yes	Yes	No	No				
		EE = 11 0,2-2,2 mm									
		EE = 12 0,25-2,25 mm									
		EE = 13 0,25-2,30 mm	7,8 mA/mm								
		EE = 14 0,25-2,50 mm	7,11 mA/mm								
		EE = 15 0,25-2,75 mm	6,4 mA/mm								
		EE = 16 0,5-2,5 mm	8 mA/mm								

Gap (aver.) (B = 4)	Passive output, 4-20 mA current loop	EE = 17	0,3-4,3 mm	4 mA/mm	No	No	Yes	No
		EE = 18	0,5-4,5 mm				No	Yes
		EE = 19	0,5-5,5 mm				No	Yes
		EE = 20	5,5-9,5 mm				No	Yes
		EE = 21	1,0-9,0 mm				No	Yes
	Voltage (0...+10 V)	EE = 10	0,15-2,15 mm	5 V/mm	Yes	Yes	No	No
		EE = 11	0,2-2,2 mm				No	
		EE = 12	0,25-2,25 mm				No	
		EE = 13	0,25-2,30 mm				No	
		EE = 14	0,25-2,50 mm				No	
		EE = 15	0,25-2,75 mm				No	
		EE = 16	0,5-2,5 mm				No	
	Digital RS-485	EE = 17	0,3-4,3 mm	2,5 V/mm	No	No	Yes	Yes
		EE = 18	0,5-4,5 mm				No	
		EE = 19	0,5-5,5 mm				No	
		EE = 20	5,5-9,5 mm				No	
		EE = 21	1,0-9,0 mm				No	
Rotation speed (RPM) (B = 5)	Passive output, 4-20 mA current loop	EE = 30	5-100000 rpm	0,00016 – 0,16 mA/(rpm)	Yes	Yes	Yes	Yes
		EE = 31	5-100000 rpm	0,0001 – 0,1 V/(rpm)			Yes	Yes
		EE = 32	5-100000 rpm				Yes	Yes

- Table 3: Matching table probe type and transducer DSA17xx (converter) and measuring range.

Type of measurement	Output signal	Measuring range (Linear part)	Incremental scale factor (ISF)	Eddy current probe							
				DS0	DS1	DS2	DS3				
Gap (B = 7)	Passive output 4-20 mA current loop	EE = 10 0,15-2,15 mm	8 mA/mm	Yes	Yes	No	No				
		EE = 11 0,2-2,2 mm									
		EE = 12 0,25-2,25 mm									
		EE = 13 0,25-2,30 mm									
		EE = 14 0,25-2,50 mm	7,11 mA/mm	No	No	Yes	Yes				
		EE = 15 0,25-2,75 mm	6,4 mA/mm								
		EE = 16 0,5-2,5 mm	8 mA/mm								
		EE = 17 0,3-4,3 mm	4 mA/mm								
		EE = 18 0,5-4,5 mm									
		EE = 19 0,5-5,5 mm									
		EE = 20 5,5-9,5 mm									
	Voltage, linear part of range (-1...-17 V), (-1.6...-17.6 V)	EE = 21 1,0-9,0 mm	2 mA/mm	Yes	Yes	No	No				
		EE = 10 0,15-2,15 mm	8 V/mm								
		EE = 11 0,2-2,2 mm									
		EE = 12 0,25-2,25 mm									
		EE = 13 0,25-2,30 mm	7,8 V/mm								
		EE = 14 0,25-2,50 mm	7,11 V/mm	No	No	Yes	Yes				
		EE = 15 0,25-2,75 mm	6,4 V/mm								
		EE = 16 0,5-2,5 mm	8 V/mm								
		EE = 17 0,3-4,3 mm	4 V/mm								
		EE = 18 0,5-4,5 mm									

Dimensions of transducers

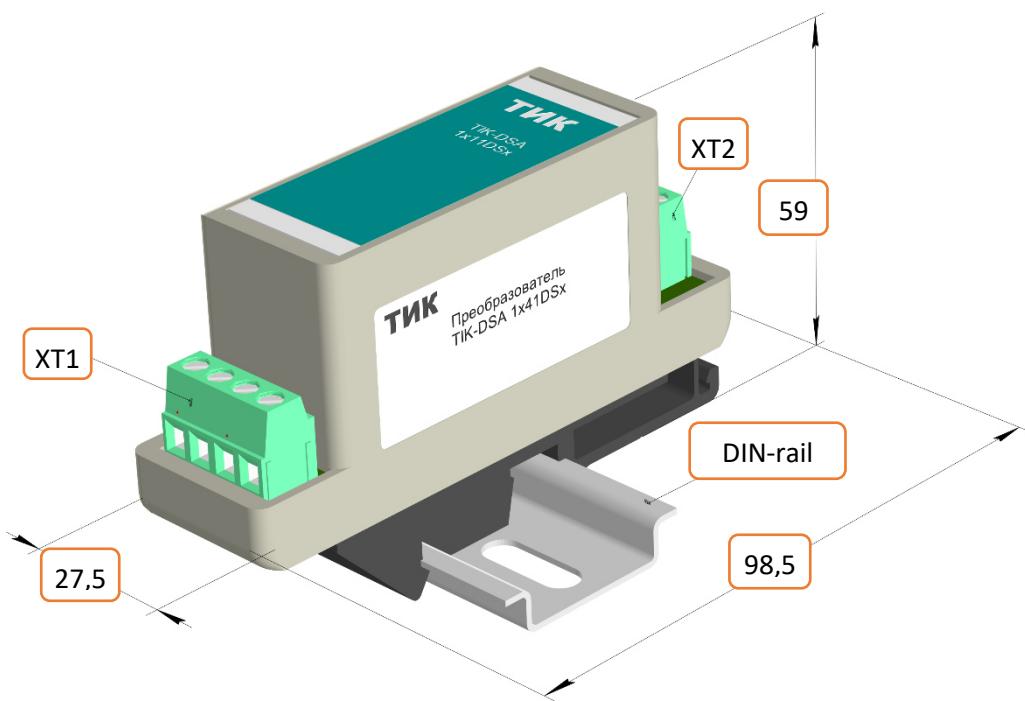


Fig.1 Plastic housing on a DIN rail

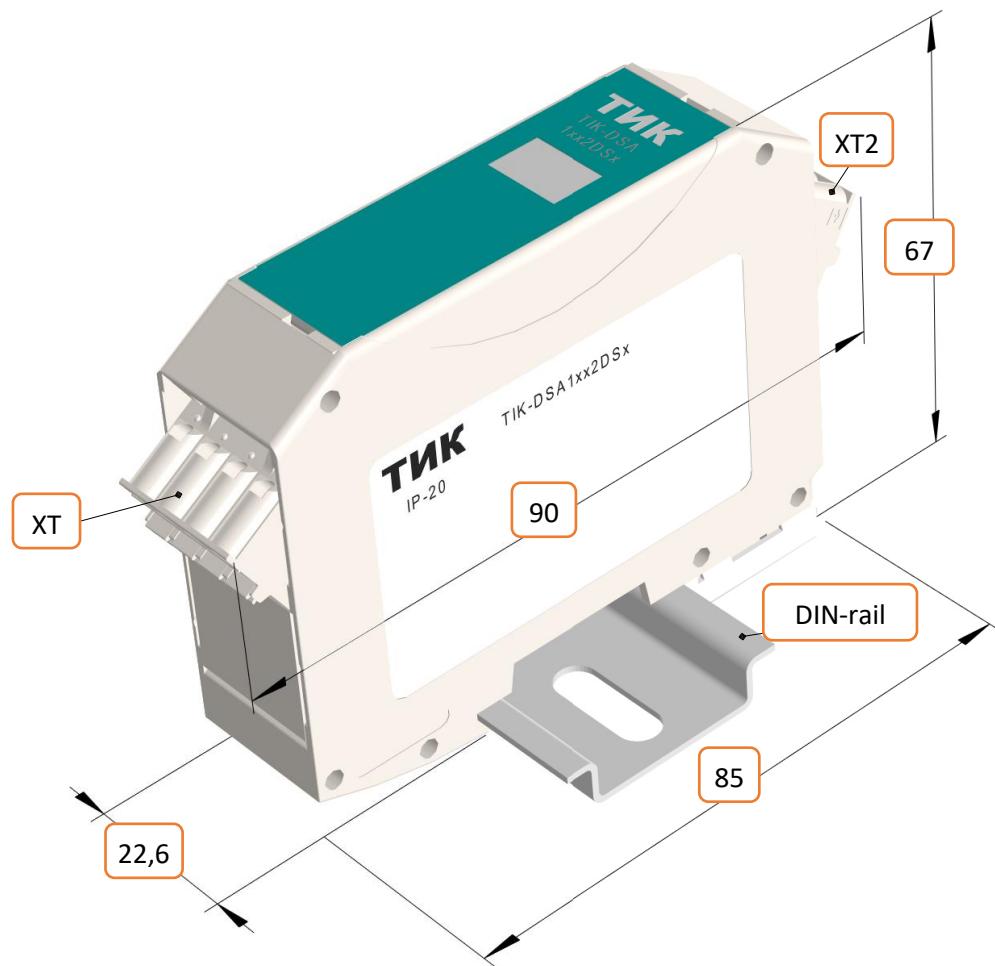


Fig.2 Plastic housing on a DIN rail with display

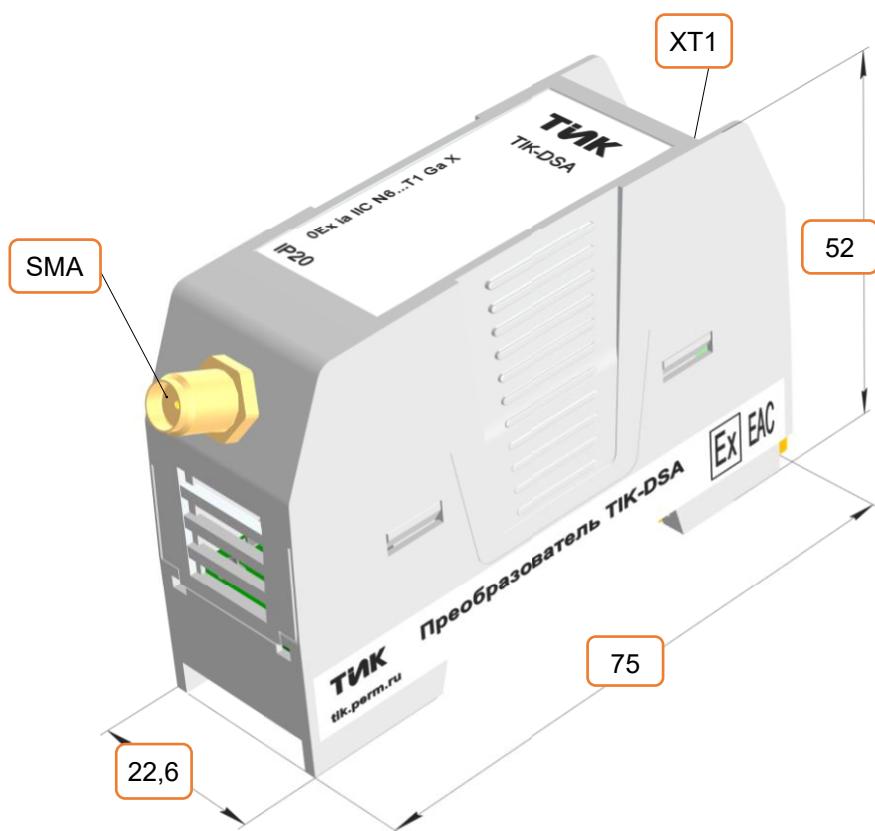


Fig.3 Plastic housing on a DIN rail with SMA connector

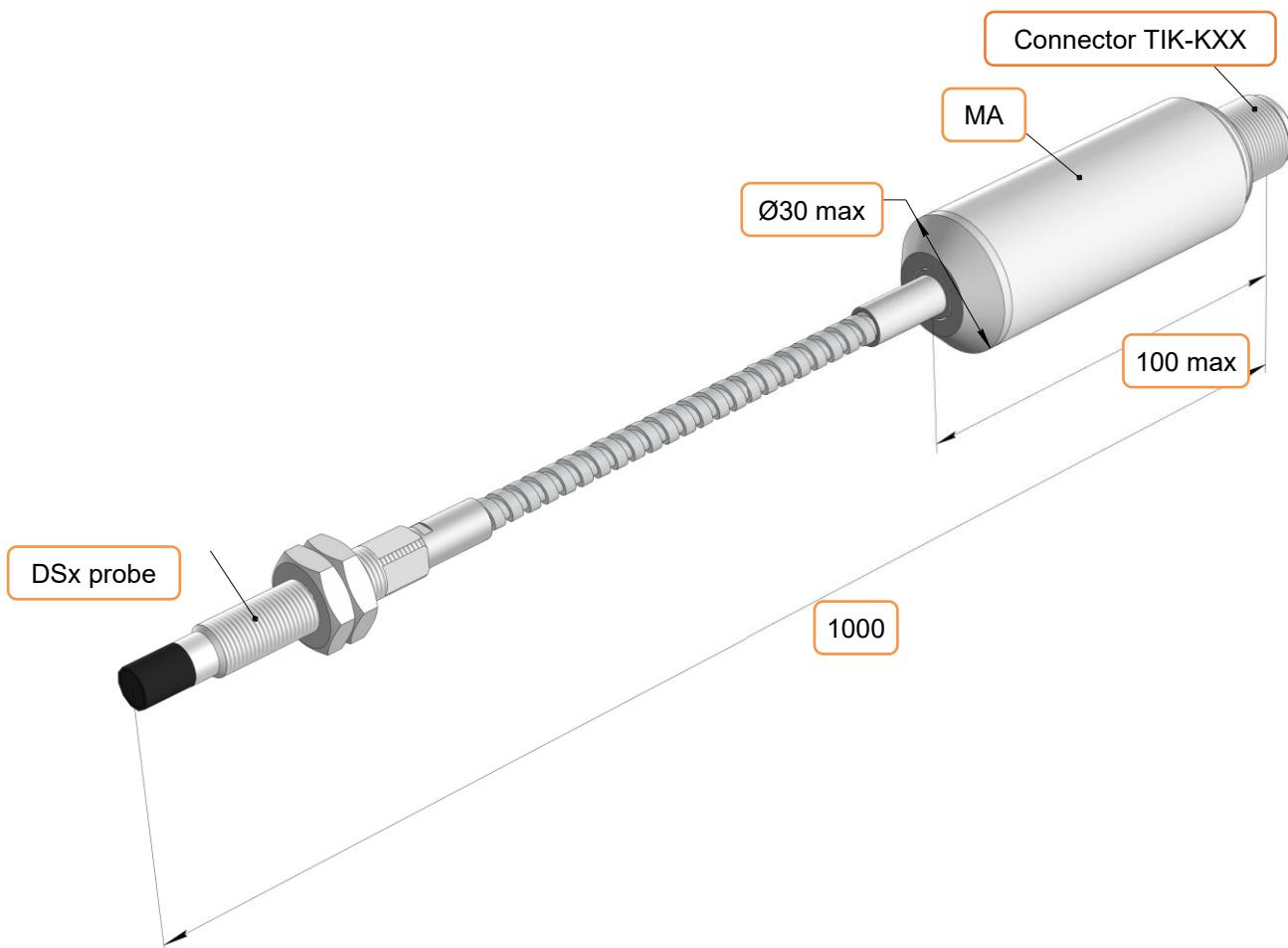
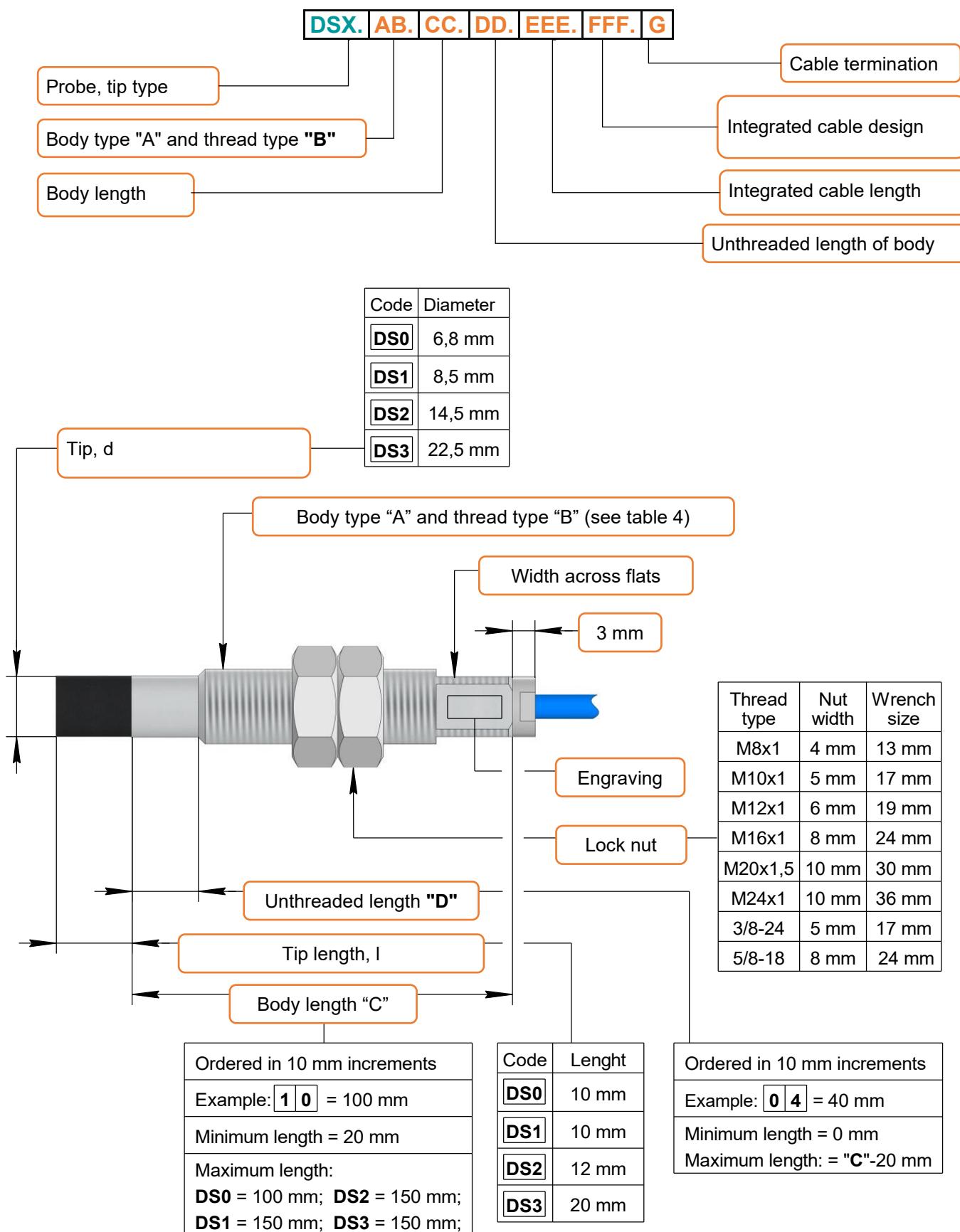
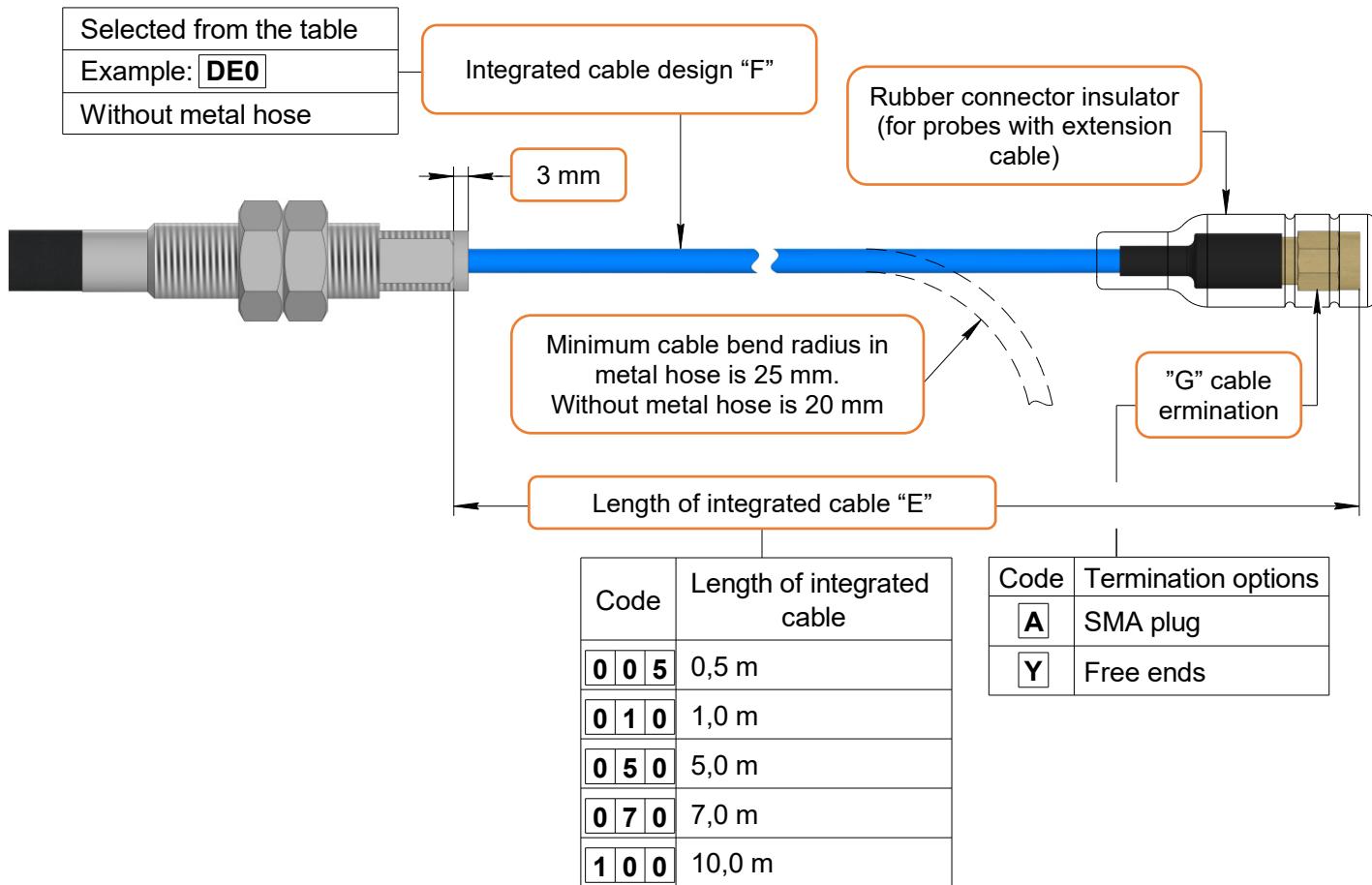


Fig.4 Converter on the cable with connector TIK-KXX

2. DS eddy current probe with cylindrical straight body





Encoding description

X	Probe tip type
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Table 4

X	d, mm	l, mm	Thread type							
			Metric						Inch	
			M8x1	M10x1	M12x1	M16x1	M20x1,5	M24x1	3/8-24 UNF	5/8-18 UNF
DS0	6,8	10	A	B					C	
DS1	8,5	10		A	B				C	
DS2	14,5	12				A	B			C
DS3	22,5	20						A		
Width across flats, mm			7	8	10	11	13	21	8	13
Lock nut	Wrench size, mm		13	17	19	24	30	36	17	24
	Nut height, mm		4	5	6	8	10	10	5	8

A Body type		
1	Cylindrical straight body (Forward Mount)	
2	Reverse Mount	
3	Cylindrical straight body with converter on the cable	
4	Smooth Case	
B Thread type (see table 4)		
A	Main metric thread of the probe body	
B	Additional metric thread of the probe body	
C	Main inch thread of the probe body	
D	Additional inch thread of the probe body	
C C Body length		
Ordered in 10 mm increments		Example: 0 2 = 20 mm
Minimum body length: 20 mm		
Maximum body length:		For DS0 = 100 mm; For DS1, DS2, DS3 = 150 mm
D D Unthreaded length of body		
Ordered in 10 mm increments		Example: 0 4 = 40 mm
Minimum unthreaded length: 0 mm⁽¹⁾		
Maximum unthreaded length: = body length "C" - 20 mm ⁽²⁾		

Note:

1. Unthreaded length = 0 mm in the standard option.
2. Unthreaded length in the order shall be less than the body length "C" minus 20 mm. The maximum unthreaded length for DS0 = 80 mm, for DS1, DS2, DS3 = 130 mm.

E	E	E	Integrated cable length
0	0	5	0.5 m (+ 4.5 m, 6.5 m, or 9.5 m extension cable TIK-EC)
0	1	0	1.0 m (+ 4.0 m, 6.0 m, or 9.0 m extension cable TIK-EC)
0	5	0	5,0 м
0	7	0	7,0 м
1	0	0	10,0 м

Note: The TIK-EC extension cable shall be ordered separately (see section 4). Non-standard length of the integrated cable can be provided under an individual order.

F	F	F	Integrated cable design (see table 5)
D	E	0	Without metal hose
X	P	0	Snake-skin braid FORTISFLEX XP-3
D	N	0	Stainless steel metal hose DN4
N	P	0	Stainless steel metal hose DN4 in PVC sheath
N	F	0	Stainless steel metal hose DN4 in FEP sheath

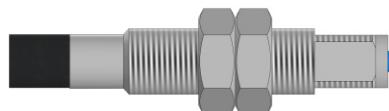
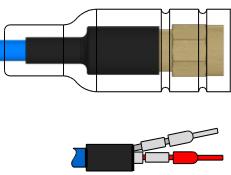
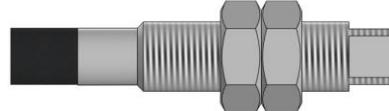
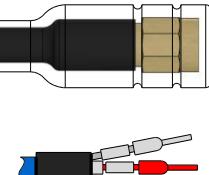
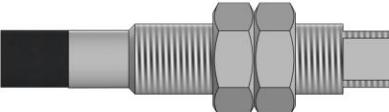
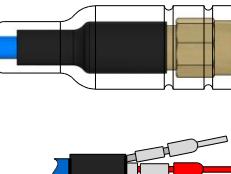
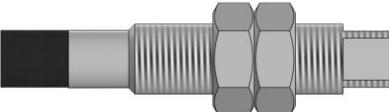
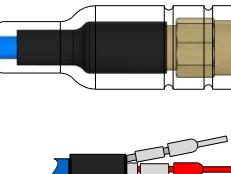
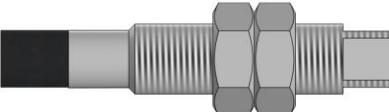
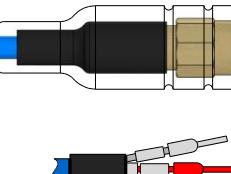
Note: The cable is 50 ohms, maximum cable diameter is 3.2 mm, maximum cable diameter in metal hose is 6.2 mm. Non-standard design of the integrated cable can be provided under an individual order.

G	Cable termination option
A	SMA connector ⁽⁴⁾
Y	Free ends (cable prepared for terminals) ⁽³⁾

Note:

3. In the standard option the cable ends are prepared for terminals for connection to the converter.
4. The SMA connector is used to connect the integrated cable to an extension cable or to a converter with an SMA connector.

Table 5: Design of integrated cable "F"

Code			Description	Figure
F	F	F		
D	E	0	Cable without metal hose	 
X	P	0	Snake-skin braid FORTISFLEX XP-3	 
D	N	0	Stainless steel metal hose DN4	 
N	P	0	Stainless steel metal hose DN4 in PVC sheath	 
N	F	0	Stainless steel metal hose DN4 in FEP sheath	 

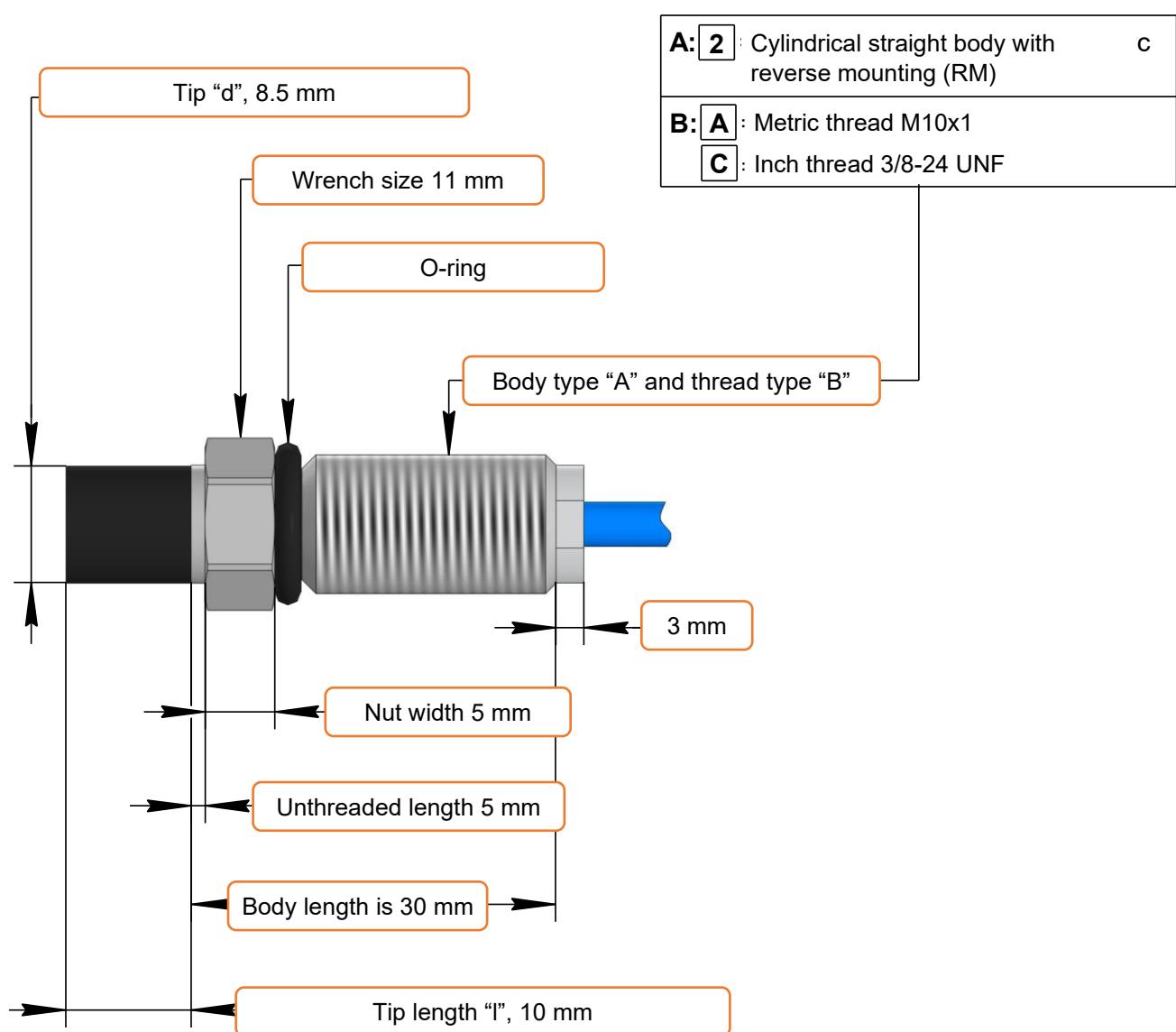
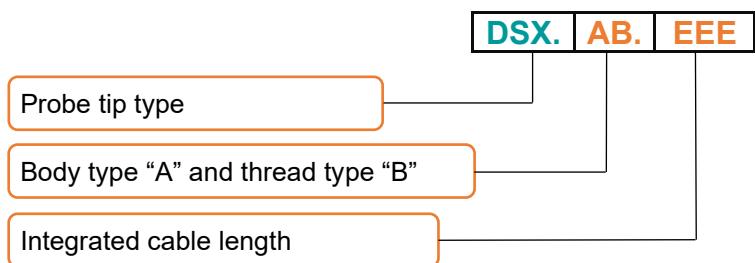
Example of order:**DS1.1A.15.02.050.XP0.A**

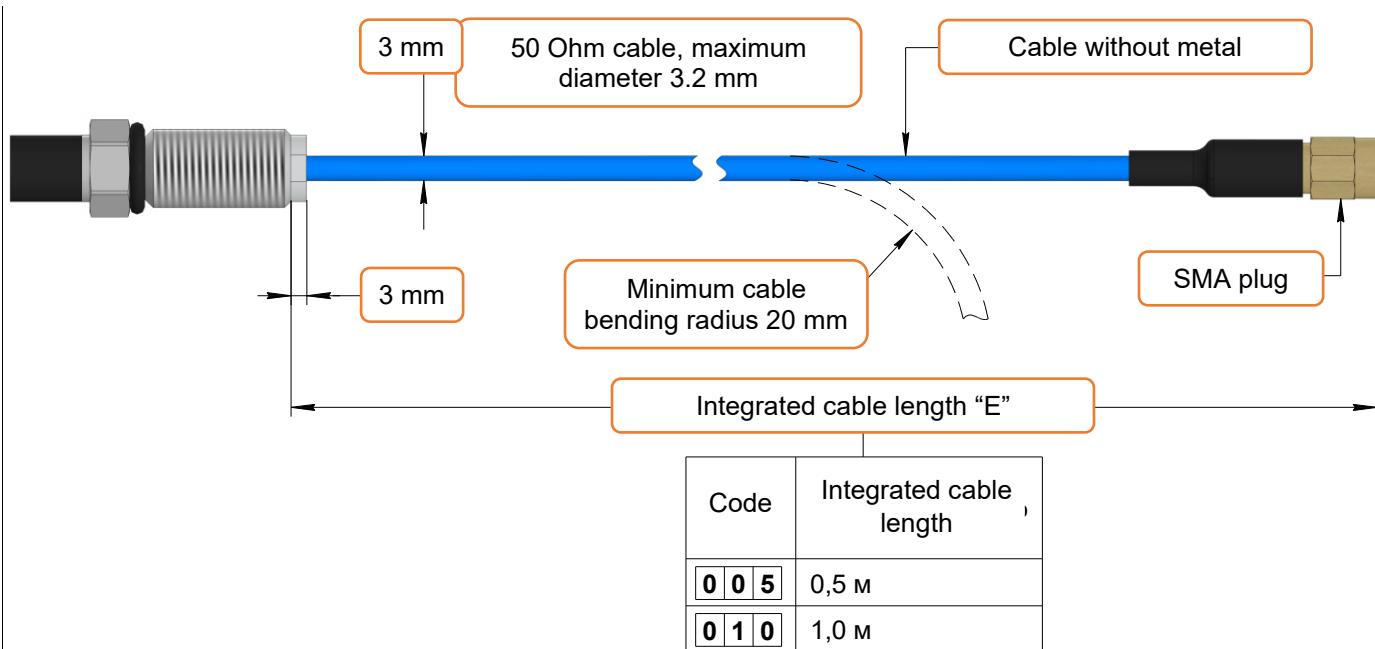
DS1 probe with cylindrical straight body (for forward mount) and body thread M10x1. The body length is 150 mm, the unthreaded length of body is 20 mm. Integrated cable length is 5.0 m, with FORTISFLEX XP-3 snake-skin braid, cable termination is SMA connector.

DS2.1B.15.04.100.DN0.Y

DS2 probe with cylindrical straight body (for forward mount) and body thread M20x1.5. The body length is 150 mm, the unthreaded length of body is 40 mm. Integrated cable length is 10.0 m, with Stainless steel metal hose DN4, cable termination is free ends.

3. Eddy current probe DS with cylindrical straight body. Reverse Mount





Encoding description

X	Probe tip type
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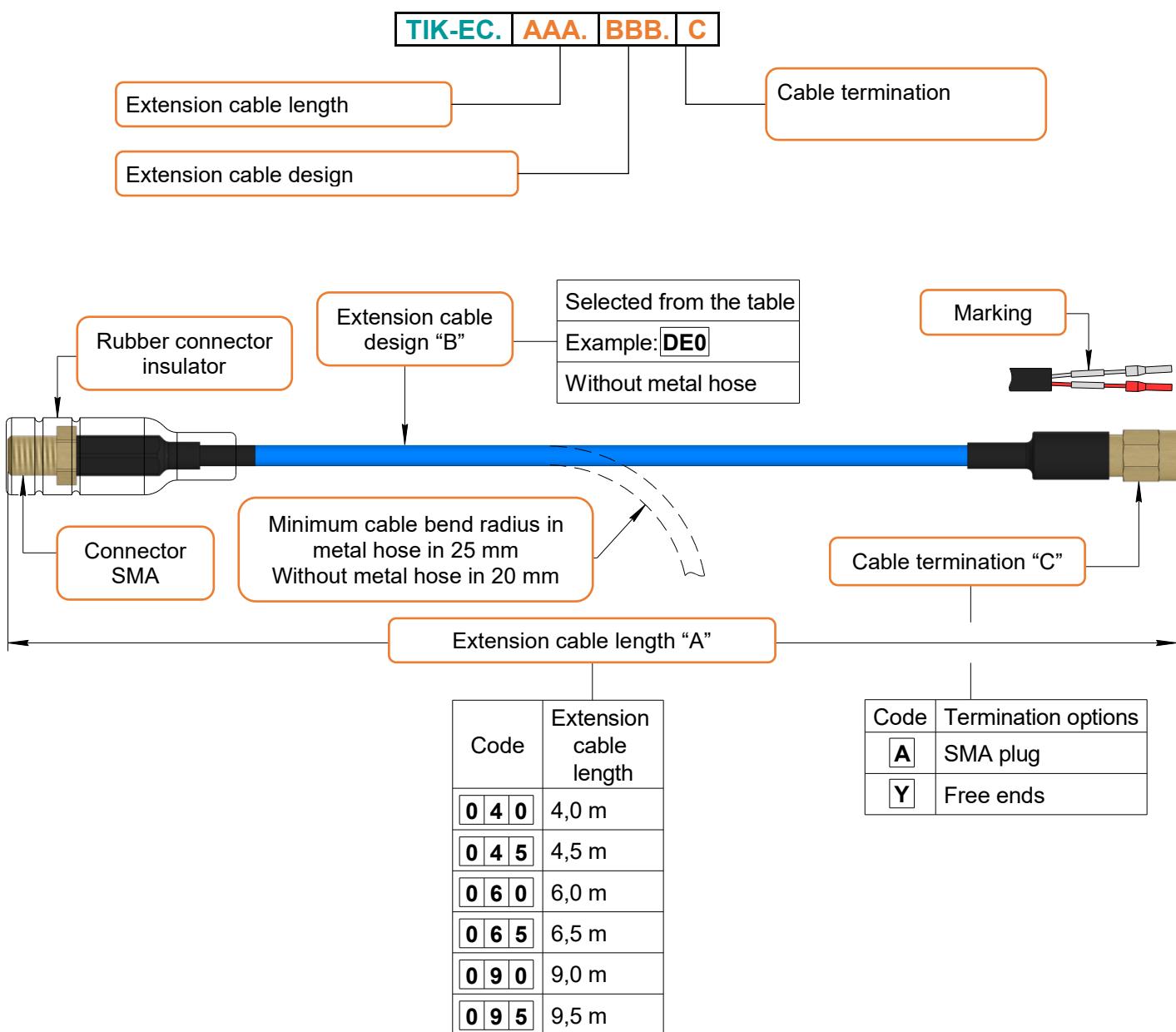
Table 6

X	d, mm	l, mm	Thread type	
			Metric	Inch
			M10x1	3/8-24 UNF
DS1	8,5	10	A	
Wrench size, mm			11	

A	Body type
1	Cylindrical straight body
2	Reverse Mount
3	Cylindrical straight body with converter on the cable
4	Smooth Case
B	Thread type (see table 6)
A	Main metric thread of the probe body
C	Additional metric thread of the probe body
E	Integrated cable length
0 0 5	0.5 m (+ 4.5 m, 6.5 m, or 9.5 m extension cable TIK-EC)
0 1 0	1.0 m (+ 4.0 m, 6.0 m, or 9.0 m extension cable TIK-EC)

Note: The TIK-EC extension cable shall be ordered separately (see section 4).

4. Extension cable for forward and reverse mount probes



Encoding description

A	A	A	Extension cable length
0	4	0	4,0 m
0	4	5	4,5 m
0	6	0	6,0 m
0	6	5	6,5 m
0	9	0	9,0 m
0	9	5	9,5 m

Note: Non-standard extension cable can be provided under an individual order.

B	B	B	Extension cable design (see table 7)
D	E	0	Without metal bushing
X	P	0	"Snakeskin" braiding FORTISFLEX XP-3
D	N	0	Stainless steel metal hose DN4
N	P	0	Stainless steel metal hose DN4 in PVC sheathed
N	F	0	Stainless steel metal hose DN4 in FEP sheathing

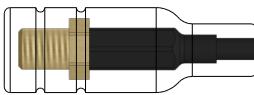
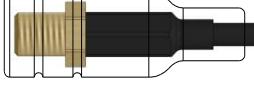
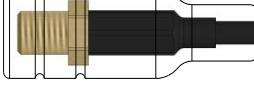
Note: The cable is 50 ohms, maximum cable diameter is 3.2 mm, maximum cable diameter in a metal hose is 6.2 mm. Non-standard extension cable can be provided under an individual order.

C	Cable termination for connection to the converter
A	SMA connector ⁽²⁾
Y	Free ends (Cable prepared for terminals) ⁽¹⁾

Note:

1. In the standard option the cable are prepared for terminals for connection to the converter.
2. The SMA connector is used to connect the integrated cable to an extension cable or to a converter with an SMA connector.

Table 7: Extension cable design "B"

Code			Description	Figure
B	B	B		
D	E	0	Cable without metal hose	 <p>Cable design</p> 
X	P	0	Snake-skin braid FORTISFLEX XP-3	 <p>Cable design</p> 
D	N	0	Stainless steel metal hose DN4	 <p>Cable design</p> 
N	P	0	Stainless steel metal hose DN4 in PVC sheath	
N	F	0	Stainless steel metal hose DN4 in FEP sheath	

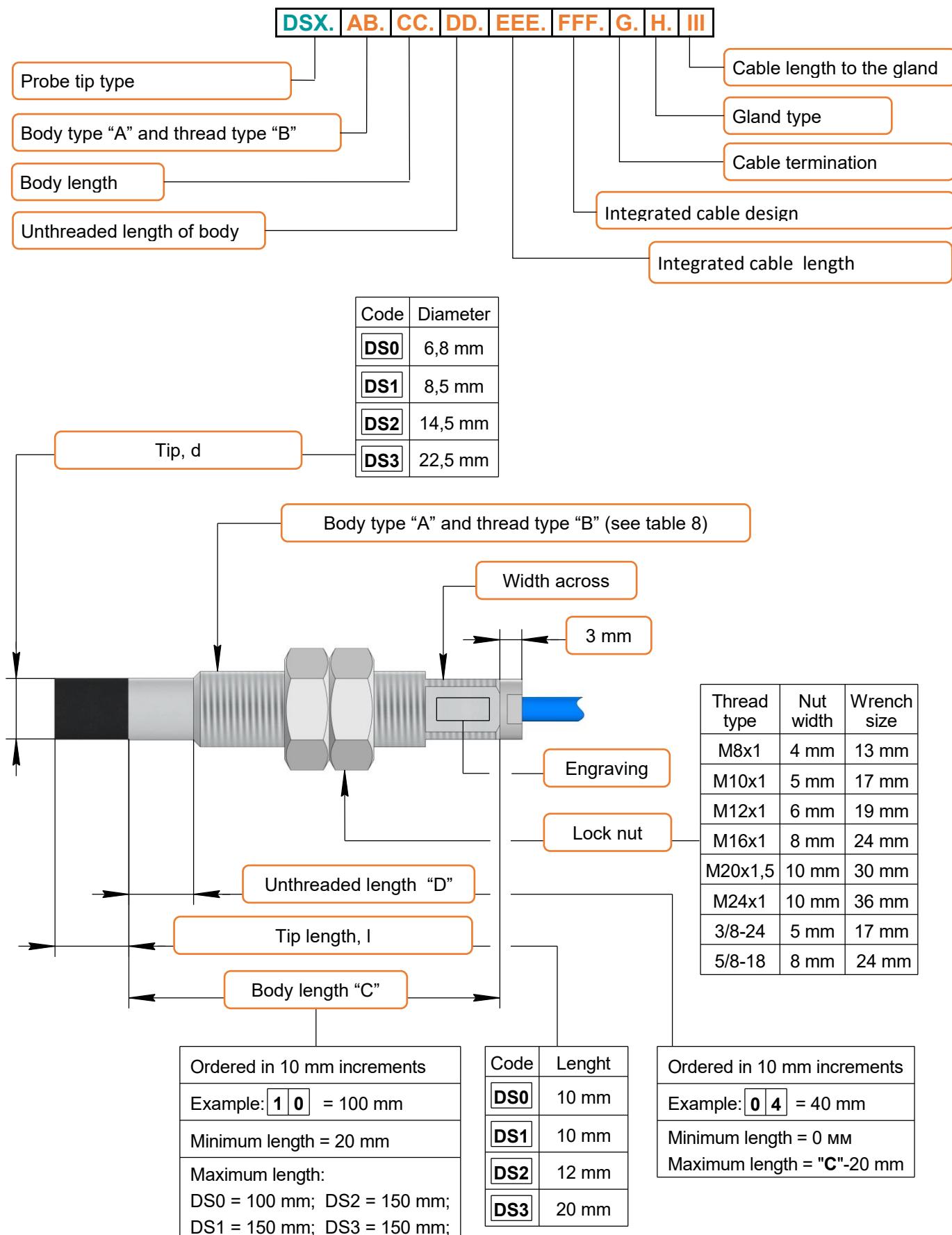
Example of order:**TIK-EC.090.XP0.A**

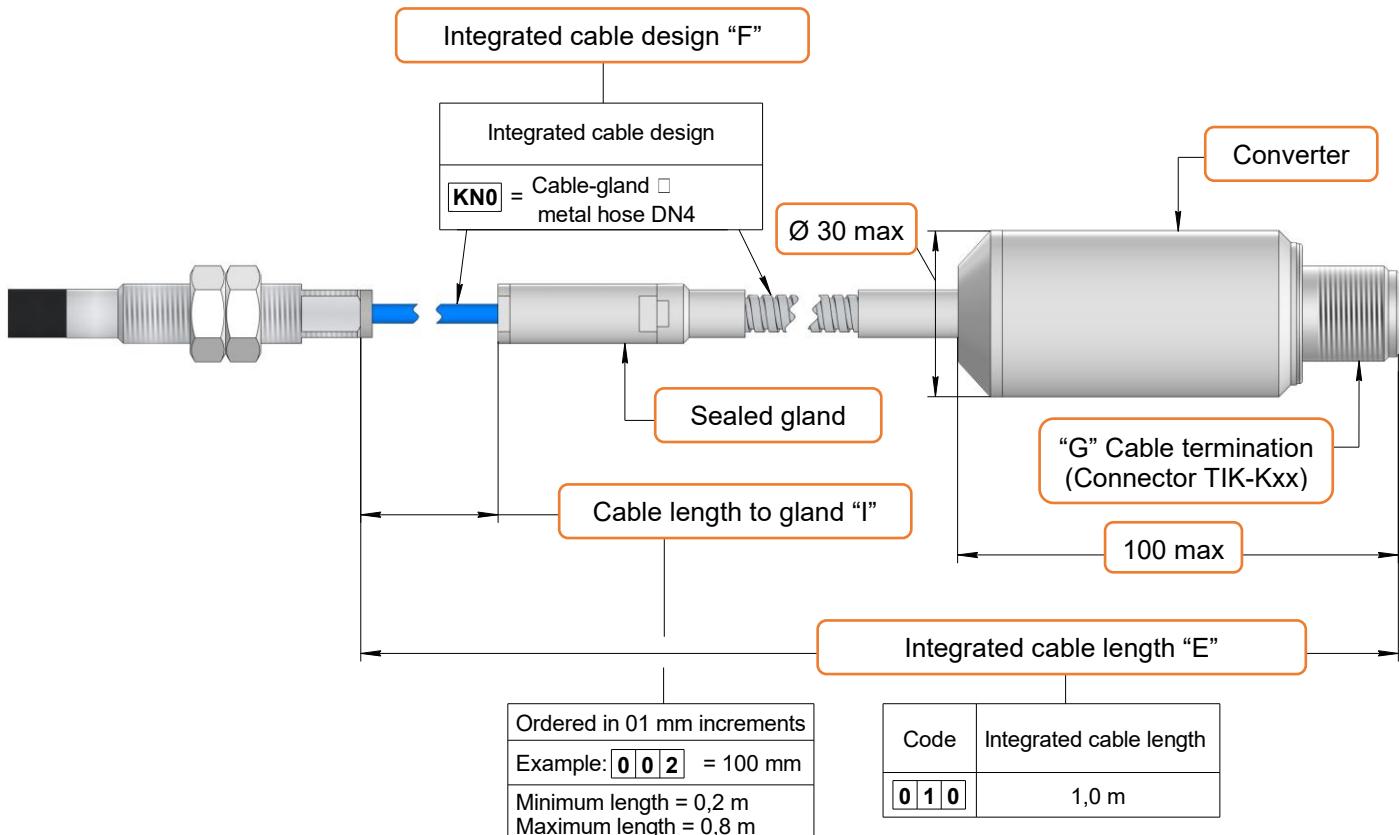
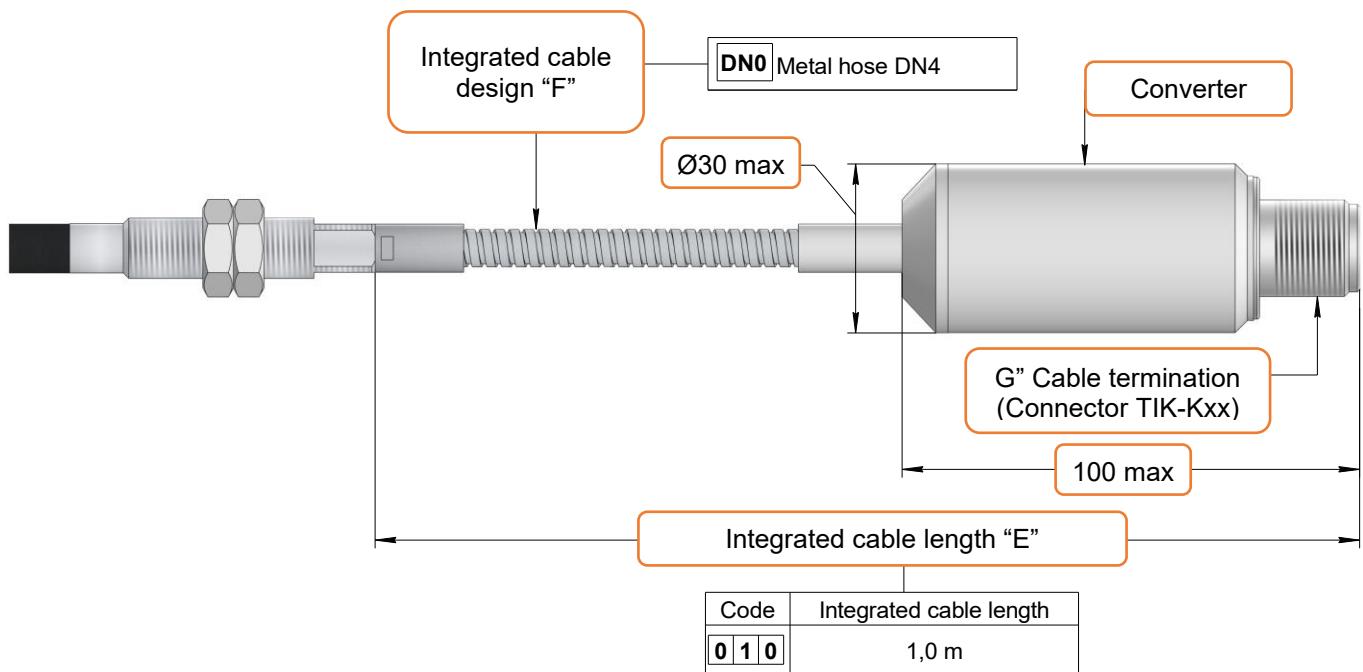
Extension cable TIK-EC with a length of 9.0 m in snake-skin braid FORTISFLEX XP-3 with SMA connector.

TIK-EC.060.DN0.Y

Extension cable TIK-EC with a length of 6.0 m in a metal hose DN4 prepared for terminals.

5. Eddy current probe DS with cylindrical straight body. Converter on cable





Encoding description

X	Probe tip type									
X	d, mm	l, mm	Thread type							
			Metric						Inch	
			M8x1	M10x1	M12x1	M16x1	M20x1,5	M24x1	3/8-24 UNF	5/8-18 UNF

Table 8

X	d, mm	l, mm	A	B					C	
DS0	6,8	10	A	B					C	
DS1	8,5	10		A	B				C	
DS2	14,5	12				A	B			C
DS3	22,5	20						A		
Width across flats, mm			7	8	10	11	13	21	8	13
Lock nut	Wrench size, mm		13	17	19	24	30	36	17	24
	Nut height, mm		4	5	6	8	10	10	5	8

A	Body type							
1	Cylindrical straight body							
2	Reverse Mount							
3	Cylindrical straight body with converter on the cable							
4	Smooth Case							
B	Thread type (see table 8)							
A	Main metric thread of the probe body							
B	Additional metric thread of the probe body							
C	Main inch thread of the probe body							
D	Additional inch thread of the probe body							
C	C	Body length						
Ordered in 10 mm increments								
Minimum body length: 20 mm								
Maximum body length:			For DS0 = 100 mm; For DS1, DS2, DS3 = 200 mm					
D	D	Unthreaded length of body						
Ordered in 10 mm increments								
Minimum unthreaded length: 0 mm ⁽¹⁾								
Maximum unthreaded length: = body length "C" - 20 mm ⁽²⁾								

Note:

1 Unthreaded length = 0 mm in the standard option.

2. Unthreaded length in the order shall be less than the body length "C" minus 20 mm. The maximum unthreaded length for DS0 = 80 mm, for DS1, DS2, DS3 = 130 mm.

E	E	E	Integrated cable length
0	1	0	1,0 m (+ connection cable TIK-EC1 with lengths of 4.0 m, 9.0 m or 14.0 m)

Note: The connection cable TIK-EC1 shall be ordered separately (see section 6). Non-standard integrated cable can be provided under an individual order.

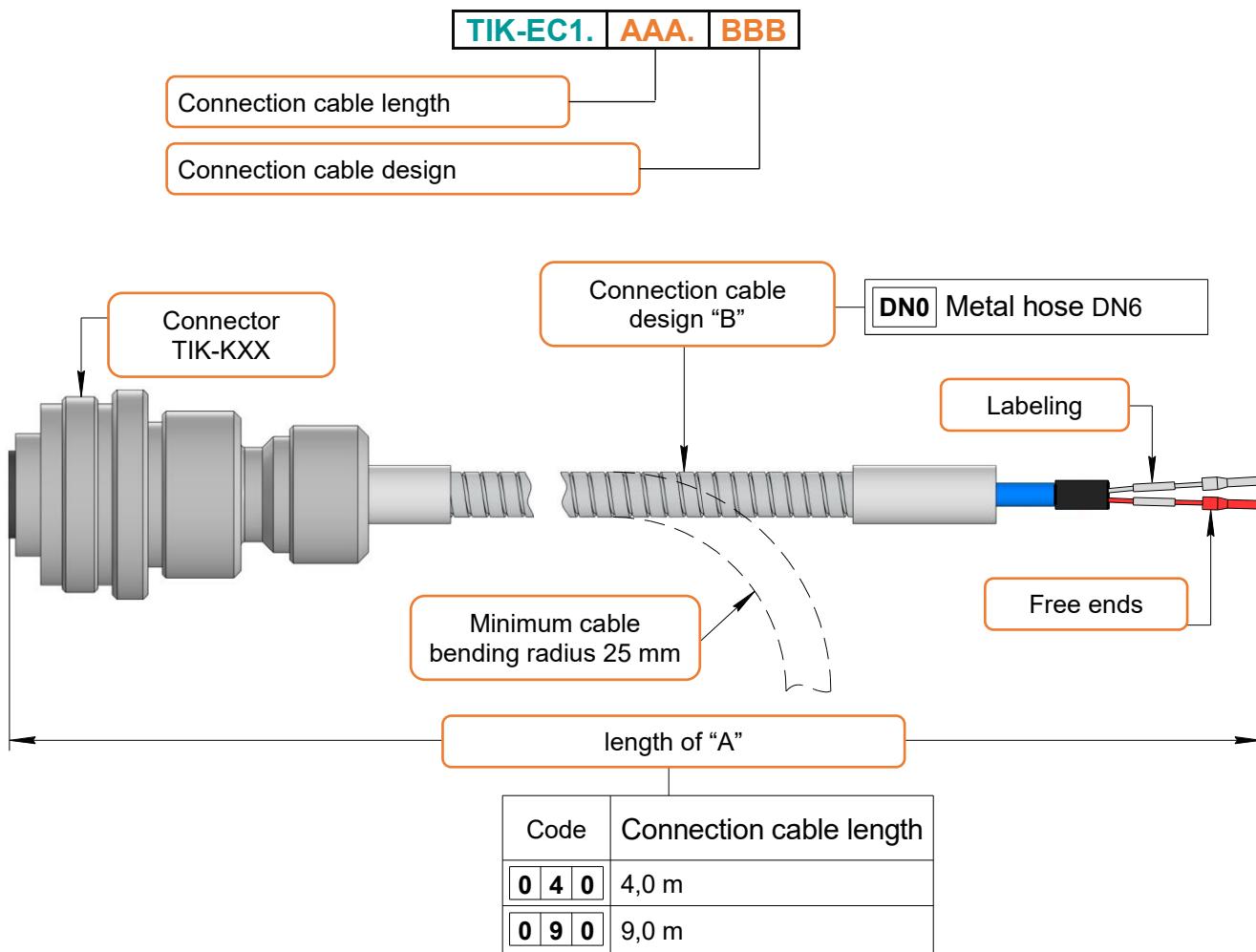
F	F	F	Integrated cable design
D	N	0	Stainless steel metal hose DN4
D	P	0	Stainless steel metal hose DN4 in PVC sheath
D	F	0	Stainless steel metal hose DN4 in FEP sheath
K	N	0	Cable - gland - stainless steel metal hose DN4
K	P	0	Cable - gland- stainless steel metal hose DN4 in PVC sheath
K	F	0	Cable - gland- stainless steel metal hose DN4 in FEP sheath
G	Cable termination option		
C	Connector TIK-Kxx		
H	Type of bushing		
0	Without gland		
1	With sealing gland		

Note:

The cable is 50 ohms, the maximum diameter of the cable is 3.2 mm, the maximum diameter of the cable in the metal hose is 6.2 mm. Minimum bending radius of the cable in the metal hose is 25 mm and 20 mm without metal hose. Non-standard integrated cable can be provided under an individual order.

I	I	I	Cable length to sealing gland
Ordered in 0.1 m increments			
			Example: 0 0 2 = 0,2 m
Minimum cable length:	0,2 m		
Maximum cable length:	0,8 m		

6. Connection cable for probes with converter on the cable



Encoding description

A	A	A	Connection cable length
0	4	0	4,0 m
0	9	0	9,0 m

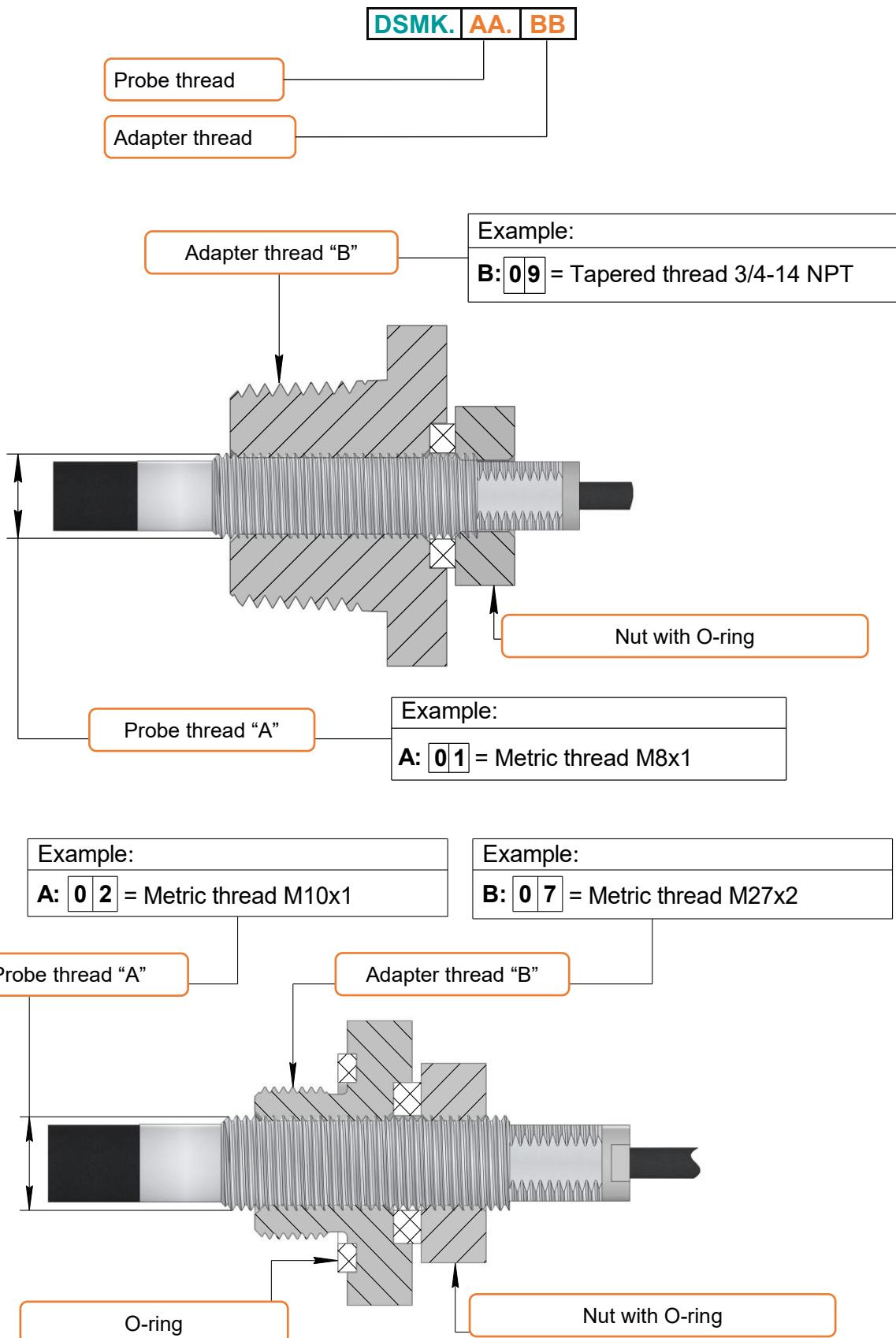
Note: Non-standard lengths of the connection cable can be provided under an individual order.

B	B	B	Connection cable design
D	N	0	Stainless steel metal hose DN6
N	P	0	Stainless steel metal hose DN6 in PVC sheath
N	F	0	Stainless steel metal hose DN in FEP sheath

Note: Maximum cable diameter 5.6 mm, maximum cable diameter in metal bushing 9.7 mm. Non-standard design of the connection cable can be provided under an individual order.

7. Mounting kit for probes with forward mounting.

Operating pressure up to 1.5 MPa.



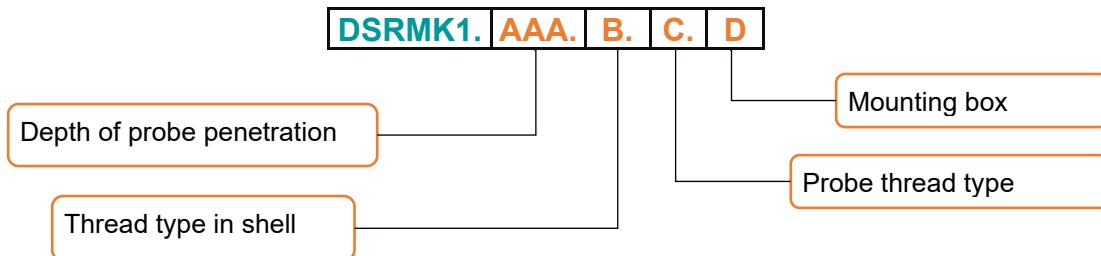
Encoding description

A	A	Probe threads type
0	1	Metric M8x1
0	2	Metric M10x1
0	3	Metric M12x1
0	4	Metric M16x1
0	5	Metric M20x1,5
0	6	Metric M24x1
0	7	Inch 3/8-24 UNF
0	8	Inch 5/8-18 UNF
B	B	Adapter thread type
0	1	Metric M16x1
0	2	Metric M20x1
0	3	Metric M20x1,5
0	4	Metric M24x1
0	5	Metric M24x1,5
0	6	Metric M27x1,5
0	7	Metric M27x2
0	8	Metric M27x3
0	9	Tapered inch 3/4-14 NPT (K3/4" GOST 6111-52)

Table 9: Thread matching table

Adapter thread	Probe threads						
	Metric					Inch	
	M8x1	M10x1	M12x1	M16x1	M20x1,5	3/8-24 UNF	5/8-18 UNF
Metric M16x1			No				
Metric M20x1				No			No
Metric M20x1,5					No		
Metric M24x1						Yes	
Metric M24x1,5							Yes
Metric M27x1,5		Yes	Yes				
Metric M27x2				Yes			
Metric M27x3					Yes		
Tapered 3/4-14 NPT (K3/4" GOST 6111-52)							

8. Mounting kit for reverse mount probe. Working pressure up to 0.2 MPa.



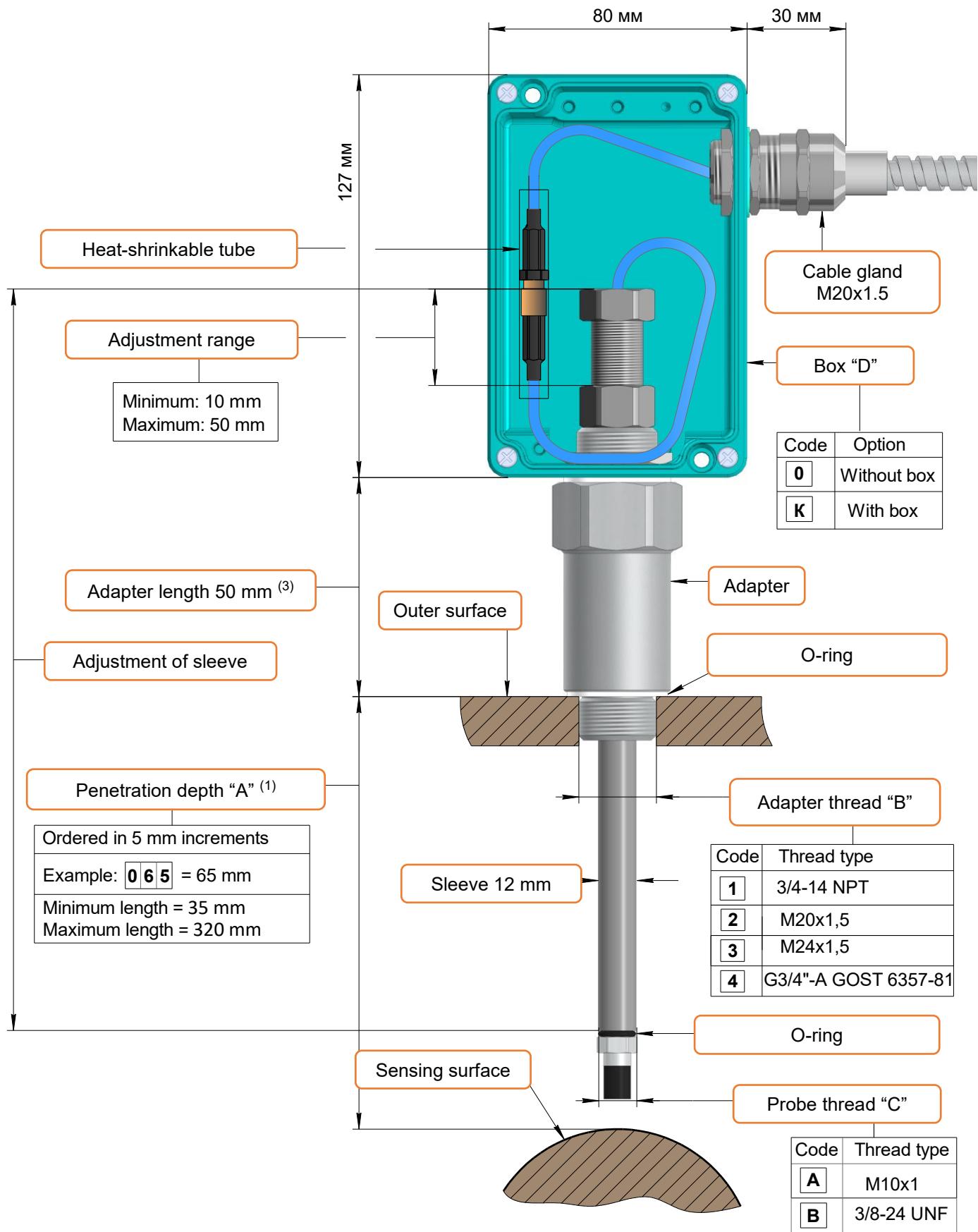
Encoding description

A	A	A	Probe penetration depth ¹
			Ordered in 5 mm increments
			Example: 0 6 5 = 65 mm
			Minimum depth: 35 mm
			Maximum depth: 320 mm
B	Thread type in the shell		
1	3/4-14 NPT (К3/4" ГОСТ 6111-52)		
2	M20x1,5		
3	M24x1,5		
4	G3/4"- A ГОСТ 6357-81		
C	Probe thread type		
A	M10x1		
B	3/8-24 UNF		
D	Mounting box		
0	Without box		
K	With rectangular aluminum box		

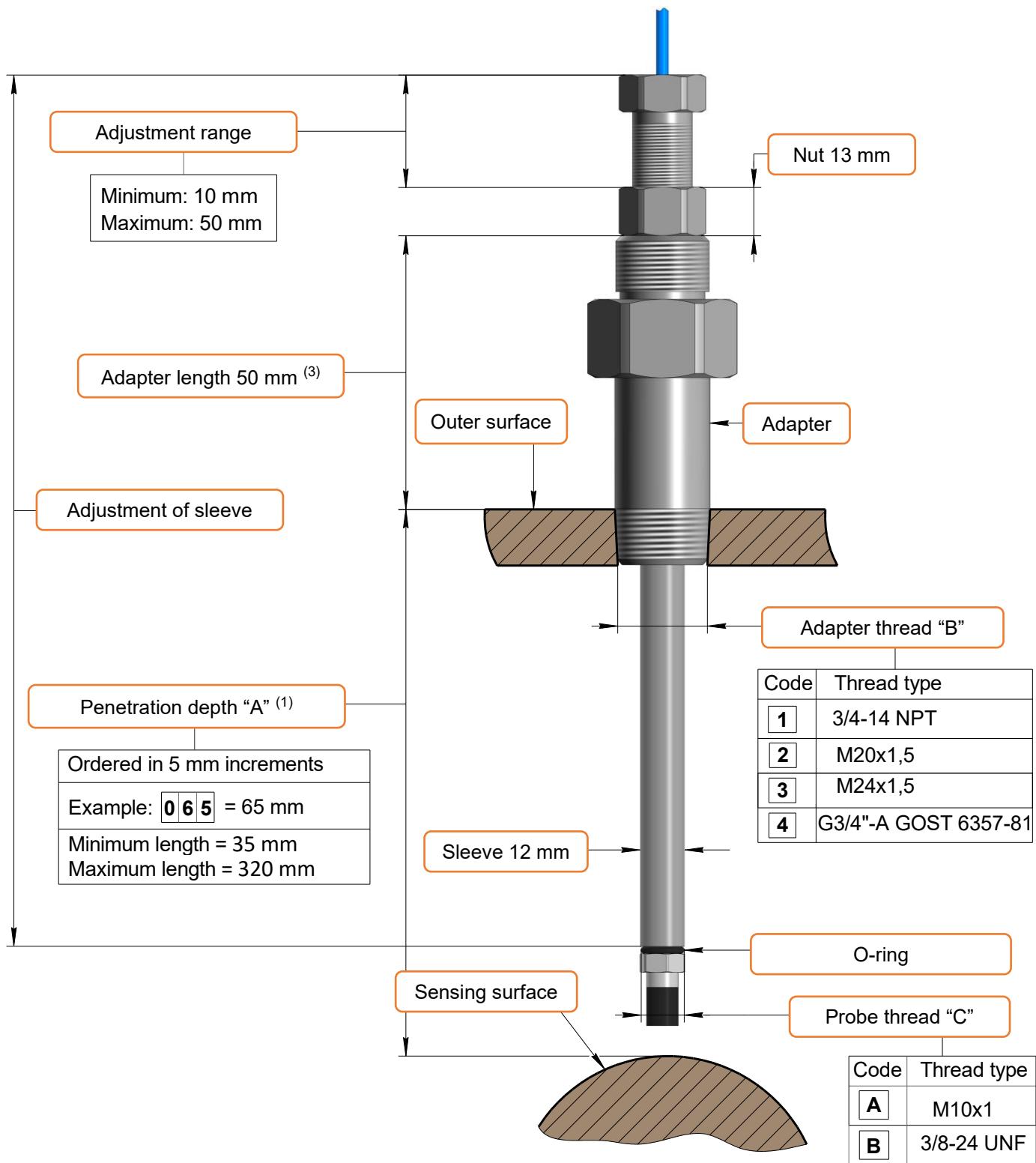
Note:

1. The penetration depth is adjusted by the sleeve within a range of ±20 mm.
2. The mounting kit can be supplied complete with a Reverse Mount DS probe
3. In the standard option, the length of the adapter is 50 mm. Custom lengths can be provided under an individual order.

Working pressure up to 0.2 MPa
Version with rectangular aluminum box

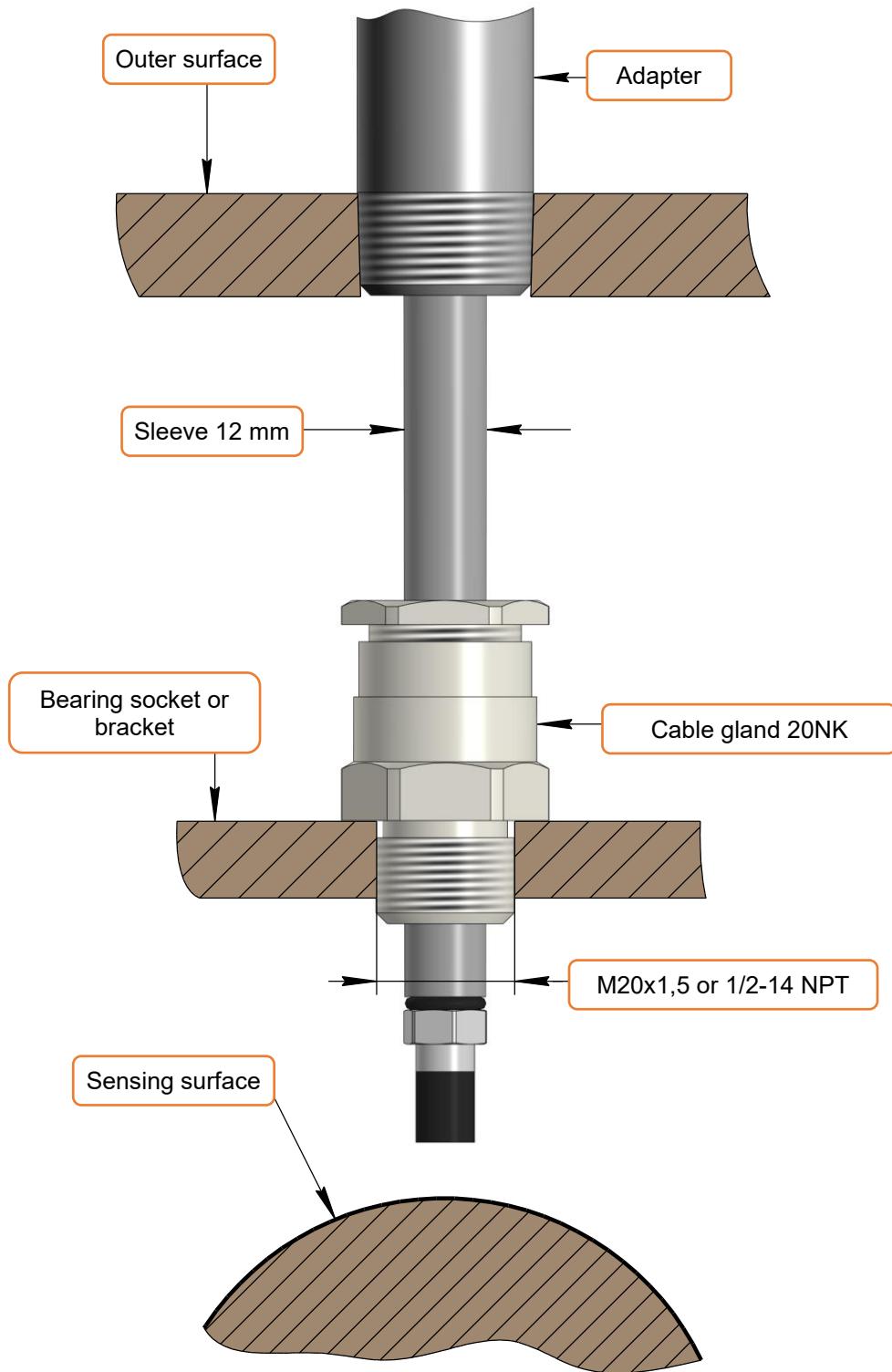


Working pressure up to 0.2 MPa
Version without box



If the length of the adjusting sleeve is more than **300 mm (12 inches)**, additional support (bearing socket or bracket) is required to prevent resonance.

Version with additional bushing support

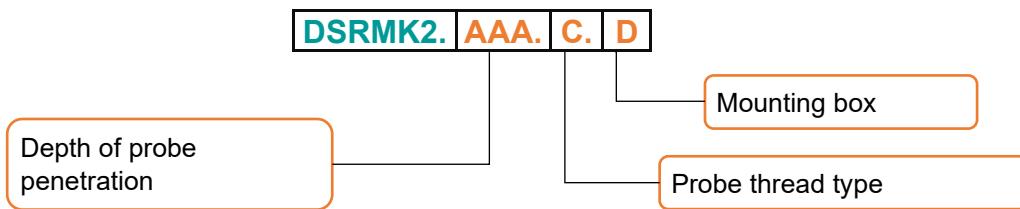


Example of order:

DSRMK1.115.1.A.K

Mounting kit for the DS probe (Reverse Mount) with a penetration depth of 115 mm. With 3/4-14 NPT adapter thread and M10x1 probe thread and with rectangular aluminum box.

Mounting kit for reverse mount probe. Working pressure up to 18 MPa.



Encoding description

A	A	A	Probe penetration depth ¹	
			To be ordered in increments of 5 mm	Example: 0 6 5 = 65 mm
			Minimum depth: 35 mm	
			Maximum depth: 320 mm	
C	Probe thread type			
A	M10x1			
B	3/8-24 UNF			
D	Mounting box			
1	Rectangular aluminum box			
2	Cylindrical stainless steel box			

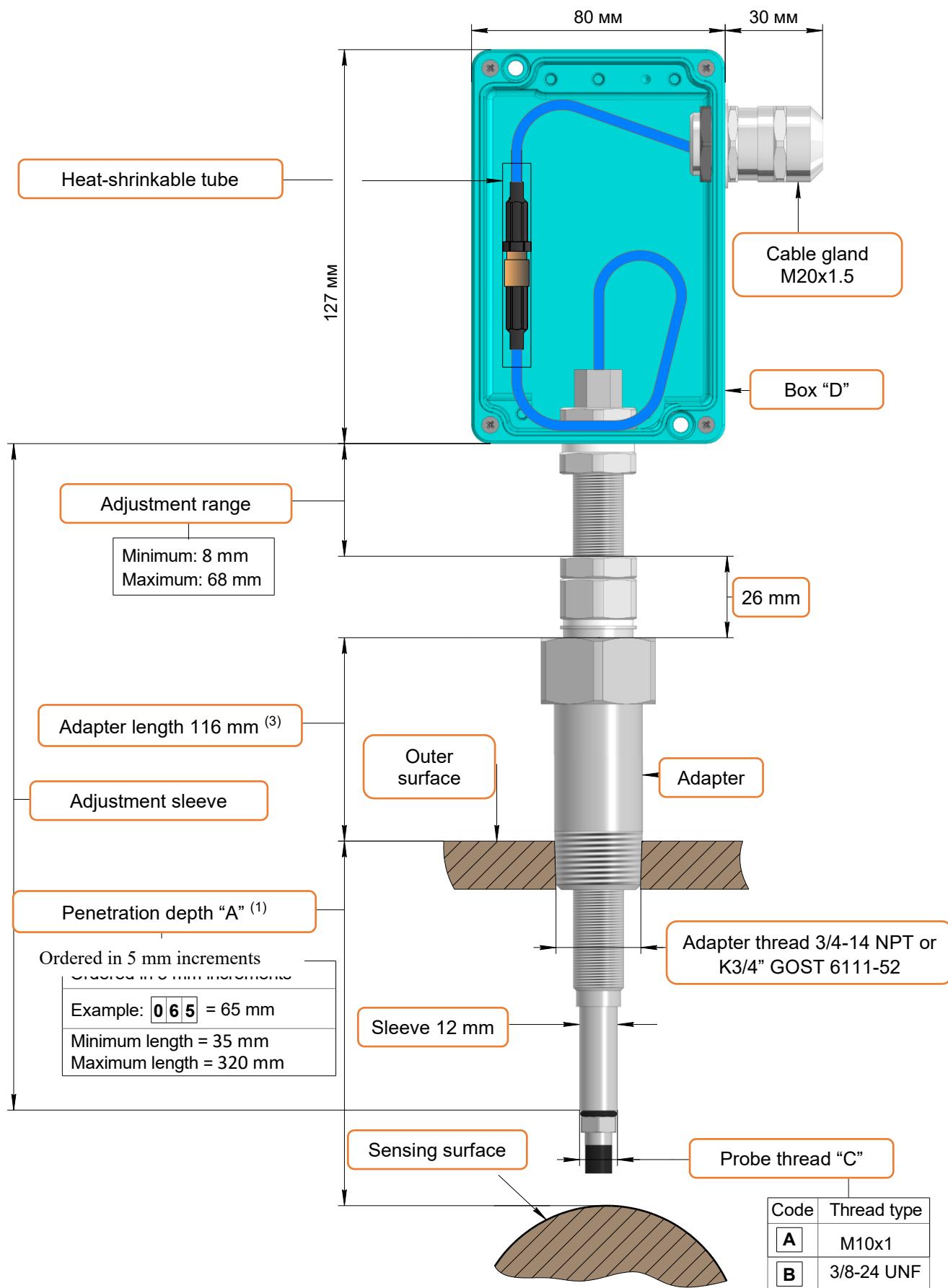
Note:

1. The penetration depth is adjustable by the bushing within a range of ± 30 mm.
2. The mounting kit can be supplied complete with a Reverse Mount probe
3. In the standard option, the length of the adapter is 116 mm. Custom lengths are available on request.

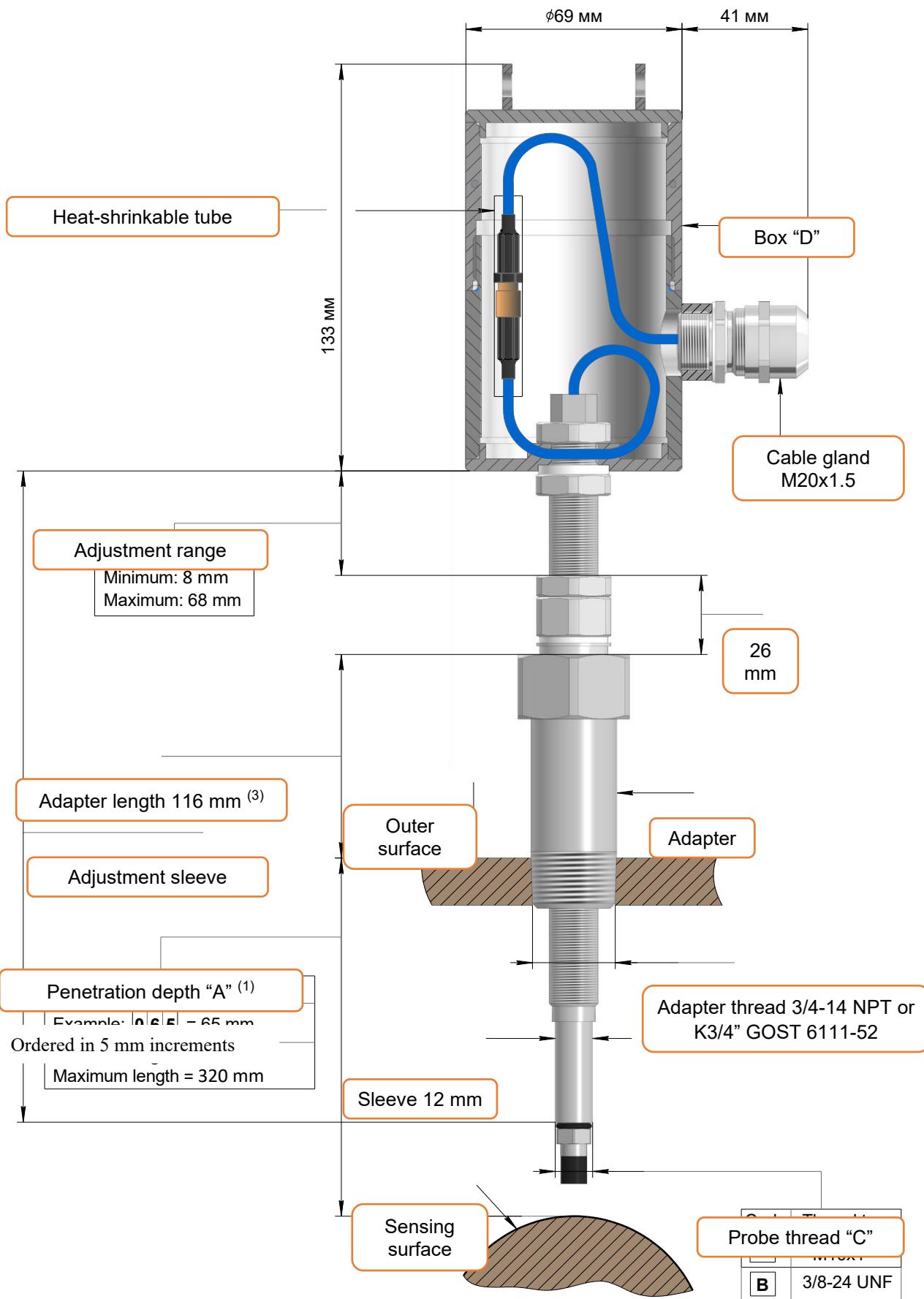
Example of order:**DSRMK2.100.A.1**

Mounting kit for the DS probe (Reverse Mount) with a penetration depth of 100 mm. With a M10x1 probe thread and with rectangular mounting box.

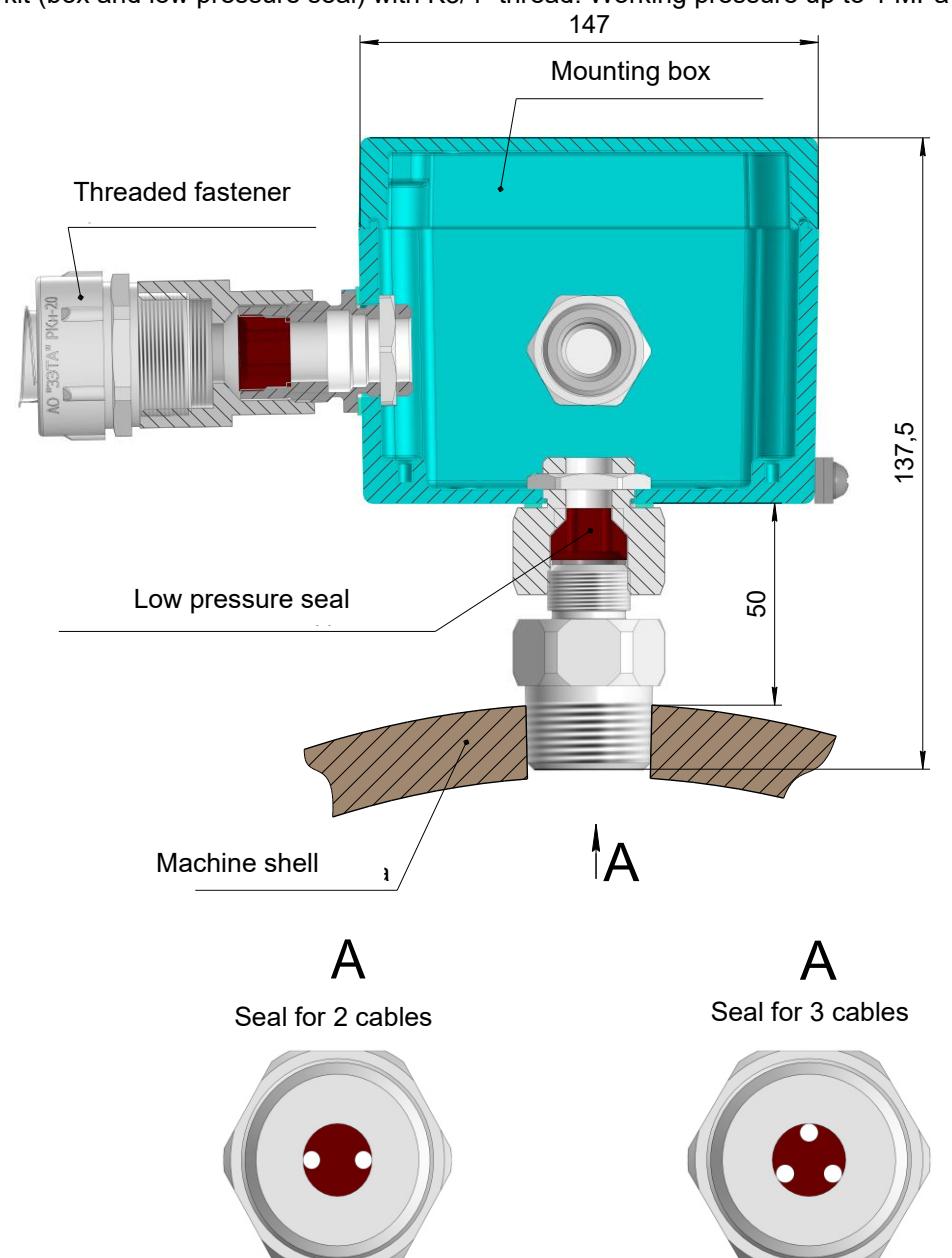
Working pressure up to 18 MPa
Version with rectangular aluminum box made

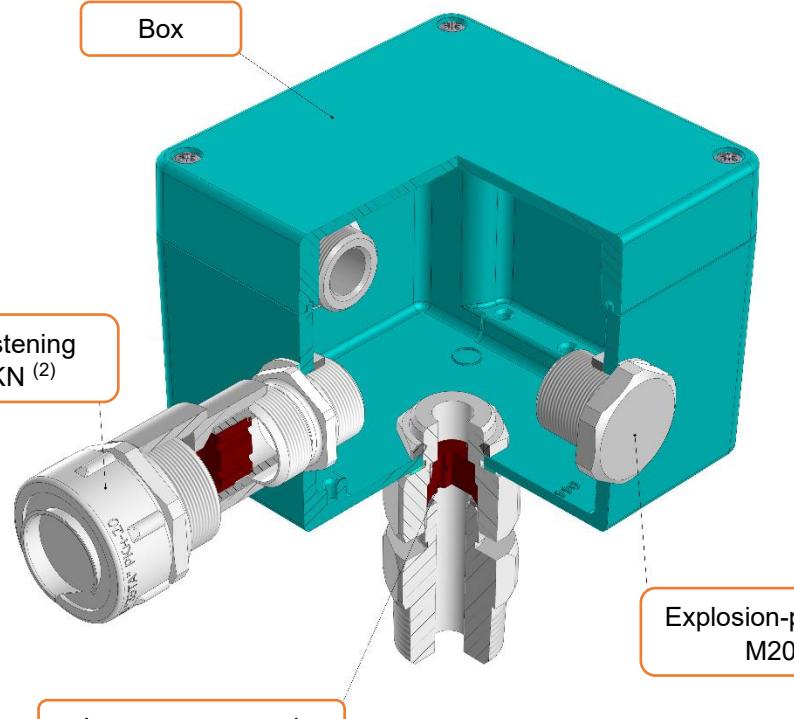


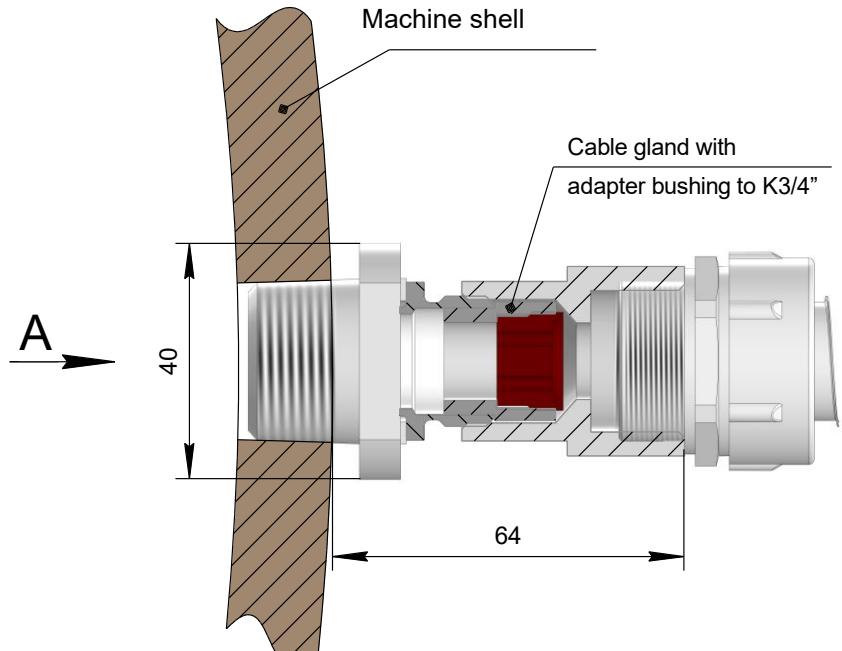
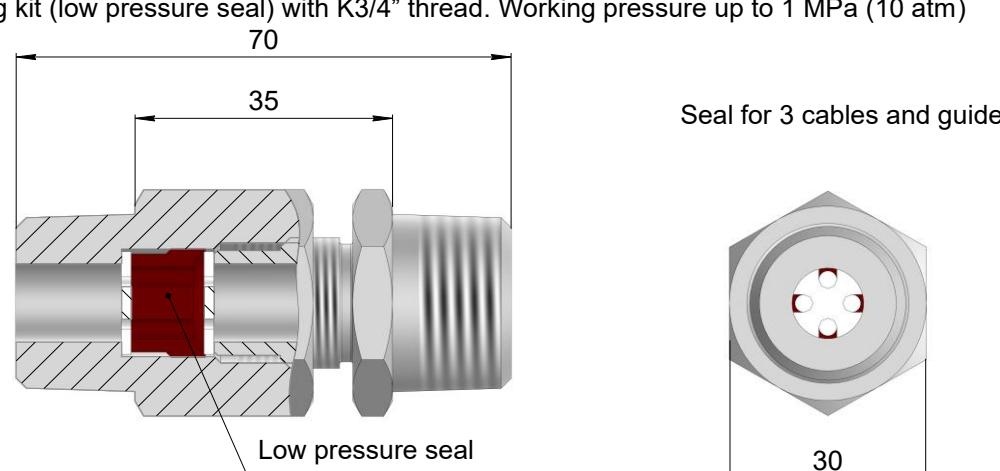
Working pressure up to 18 MPa
Version with cylindrical stainless steel box

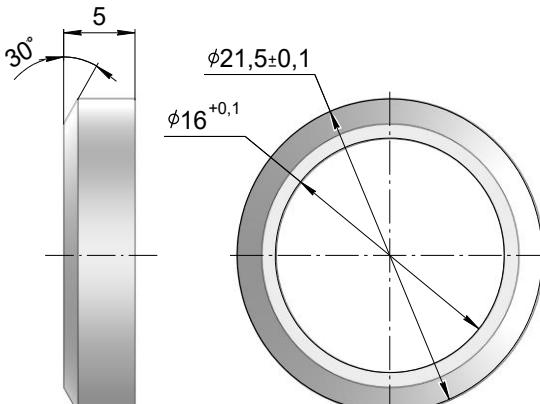


9. Additional accessories

No.	Description
TIK-NK001	Set of nuts with locking holes and locking wire
TIK-CE001	Clamp for grounding metal hose with bolt and clamp for grounding of metal hose
TIK-KV001	Cable gland M20x1,5 KV1-L1-22M
TIK-KV002	Explosion-proof cable gland 20NK
TIK-MK101	<p>Mounting kit (box and low pressure seal) with K3/4" thread. Working pressure up to 1 MPa (10 atm)</p>  <p>147</p> <p>Mounting box</p> <p>Threaded fastener</p> <p>Low pressure seal</p> <p>50</p> <p>137,5</p> <p>Machine shell</p> <p>A</p> <p>Seal for 2 cables</p> <p>A</p> <p>Seal for 3 cables</p>

No.	Description
TIK-MK101	 <p>Box</p> <p>Threaded fastening element RKN ⁽²⁾</p> <p>Explosion-proof plug M20 ⁽¹⁾</p> <p>Low pressure seal</p> <p>Note:</p> <ol style="list-style-type: none">1. In the standard option the TIK-MK101 mounting kit is completed with two explosion-proof M20 plugs.2. The mounting kit can be supplied with metal hose RKN-15, RKN-18, RKN-20.

No.	Description
TIK-MK102	<p>Mounting kit (cable gland with adapter bushing for K3/4"). Working pressure up to 1 MPa (10 atm)</p>  <p>A</p> <p>Machine shell</p> <p>Cable gland with adapter bushing to K3/4"</p> <p>40</p> <p>64</p> <p>Seal for 2 cables</p> <p>Seal for 3 cables</p>
TIK-MK103	<p>Mounting kit (low pressure seal) with K3/4" thread. Working pressure up to 1 MPa (10 atm)</p>  <p>70</p> <p>35</p> <p>Low pressure seal</p> <p>30</p> <p>Seal for 3 cables and guide</p>

No.	Description
TIK-RK001	Seal for DSRMK2 mounting kit with working pressure up to 18 MPa 



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