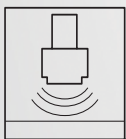
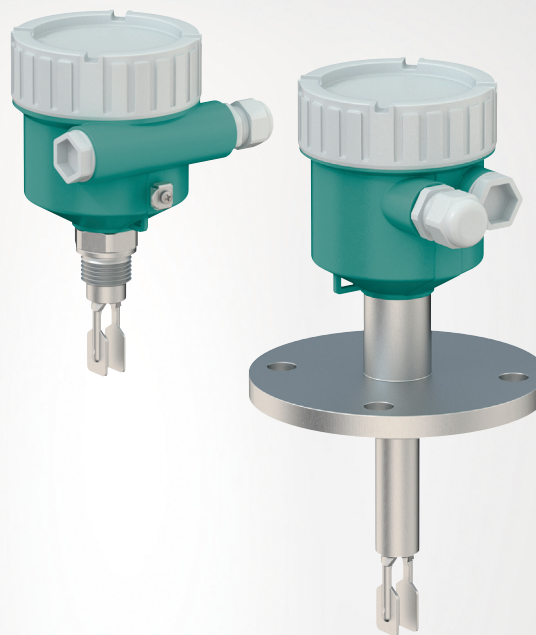


LVL-M4

Vibration Limit Switch

Control Drawing XP

Temperature Tables



With regard to the supply of products, the current issue of the following document is applicable:
The General Terms of Delivery for Products and Services of the Electrical Industry, published by the Central Association of the Electrical Industry (Zentralverband Elektrotechnik und Elektroindustrie (ZVEI) e.V.) in its most recent version as well as the supplementary clause: "Expanded reservation of proprietorship"

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1 Associated Documentation

The corresponding datasheets, manuals, instruction manuals, declarations of conformity, EU type examination certificates, certificates, and control drawings if applicable are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

This document does not substitute the instruction manual.

For full information on the product, refer to the instruction manual and further documentation on the Internet at www.pepperl-fuchs.com.

This document is an integral part of the following documents: DOCT-8107, DOCT-8111, DOCT-8517.

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com.

2 Supplementary Documentation

Information for explosion protection:

The information can be found on the Internet at www.pepperl-fuchs.com.

3 Manufacturer's Certificates

CSA C/US certificate

Certificate number: CSA C/US 80140625

The certificate is available on the product detail page of the devices on the internet at www.pepperl-fuchs.com.

Enter the order designation in the search field → Select the appropriate product → Open the product detail page → Open the **Approvals+Certificates** tab.

4 Manufacturer Address

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Lilienthalstraße 200, 68307 Mannheim, Germany

Internet: www.pepperl-fuchs.com

5 Device Versions

Device type	Basic specifications	Optional specifications
LVL-M4	-XXXXXX-XXXXXX-XX	+XX

The X-marked letters of the type code are placeholders for versions of the device.

The following specifications reproduce an extract from the product structure and are used to assign.

Basic specifications

Option	Type of probe
A	Compact version
B	Short tube version
C	Tube extension

Option	Sensor length, material
A	Compact version, Alloy C22
B	Compact version, 316L
C	Short tube version, Alloy C22
D	Short tube version, 316L
E	Tube extension, length L in mm, Alloy C22, Ra < 3.2 µm/126 µinch
F	Tube extension, length L in mm, 316L, Ra < 3.2 µm/126 µinch
G	Tube extension, length L in inch, Alloy C22, Ra < 3.2 µm/126 µinch
H	Tube extension, length L in inch, 316L, Ra < 3.2 µm/126 µinch

Option	Housing, material
A	Single compartment, aluminum, coated
D	Dual compartment, L-shape, aluminum, coated
G	Single compartment, 316L, cast

Option	Electrical connection
I	Thread NPT3/4, IP66/68, NEMA type 4X/6P

Option	Application, temperature
A	Process: max. 150 °C/302 °F, max. 64 bar
B	Process: max. 150 °C/302 °F, max. 100 bar

Option	Electrical output
A	FEL61, 2-wire, 19 to 253 V AC with test button
B	FEL64DC, relay DPDT, 9 V DC to 20 V DC, contact 253 V/6 A with test button
E	FEL62, 3-wire PNP, 10 V DC to 55 V DC with test button
N	FEL64, relay DPDT, 19 V AC to 253 V AC/19 V DC to 55 V DC, contact 253 V/6 A with test button
M	FEL68, 2-wire NAMUR with test button

Option	Display, operation
A	Without display, switch
B ¹	LED module VU120 visible from the outside, switch

¹ Only in connection with feature **Electrical output**, option **B, E, N** and feature **Housing, material**, option **A, D**

Option	Approval
CD	CSA C/US XP Cl. I Div.1 Gr. A/B-D, Cl. II, III Div. 1 Gr. E-G, Cl. I Div. 2 Gr. A-D, Cl. I Zone 1, AEx/Ex d IIC T6

Optional specifications

Option	Test, certificate, declaration
U1 ¹	Ambient temperature -50 °C/-58 °F
U2 ²	Ambient temperature -60 °C/-76 °F

¹ Only in connection with feature **Electrical output**, option **B, E, N, M** and feature **Display, operation**, option **A**

Option	Sensor design
DF	Pressure tight feed through (second line of defense)
TD	Temperature spacer

Option	Accessory mounted
BL ¹	Bluetooth module VU121
VB ²	Bluetooth module VU121 for NAMUR output

¹ Only in connection with feature **Electrical output**, option **A, B, E, N**, feature **Housing, material**, option **A, D** and feature **Display, operation**, option **A**

² Only in connection with feature **Electrical output**, option **M**, feature **Housing, material**, option **A, D** and feature **Display, operation**, option **A**

Option	Accessory enclosed
ST ¹	Test magnet
WP ²	Weather protection cover, plastic
WS ³	Weather protection cover, 316L

¹ Only in connection with feature **Electrical output**, option **B, E, N, M**

² Only in connection with feature **Housing, material**, option **A, G**

³ Only in connection with feature **Housing, material**, option **D**

6 Safety Instructions: Installation

Continuous service temperature of the connecting cable/cable gland/cable entry:

- Basic specification, feature **Electrical output**, option **E**: $\geq T_{amb} + 35\text{ K}$
- Basic specification, feature **Electrical output**, option **N**: $\geq T_{amb} + 40\text{ K}$
- Basic specification, feature **Electrical output**, option **M**: $\geq T_{amb} + 20\text{ K}$

7 Temperature Tables

General notes

Zone 0, Zone 1; Class I, Div. 1/Div. 2

Optional specification, feature **Accessories enclosed**, option **WP**



Note

When using the weather protection cover: Reduce the values T_{amb} of P1, P2, P3 by 16 K.

Class II, III, Div. 1

Optional specification, feature **Accessories enclosed**, option **WP**



Note

When using the weather protection cover: Reduce the values T_{amb} by 16 K.

Description notes



Note

Unless otherwise indicated, the positions always refer to the basic specification.

Zone 0, Zone 1; Class I, Div. 1/Div. 2

- 1st column: basic specification, feature **Housing material**, options **A, D, G**
1st column: basic specification, feature **Application, temperature**, option **A, B**
- 2nd column: with or without optional specification, feature **Sensor design**, option **DF, TD**
- 3rd column: maximum load current
- 4th column: temperature classes T6 (85 °C) to T1 (450 °C)
- Column P1 to P5: position (temperature value) on the axes of the derating
 - T_{amb} : ambient temperature in °C
 - T_p : process temperature in °C

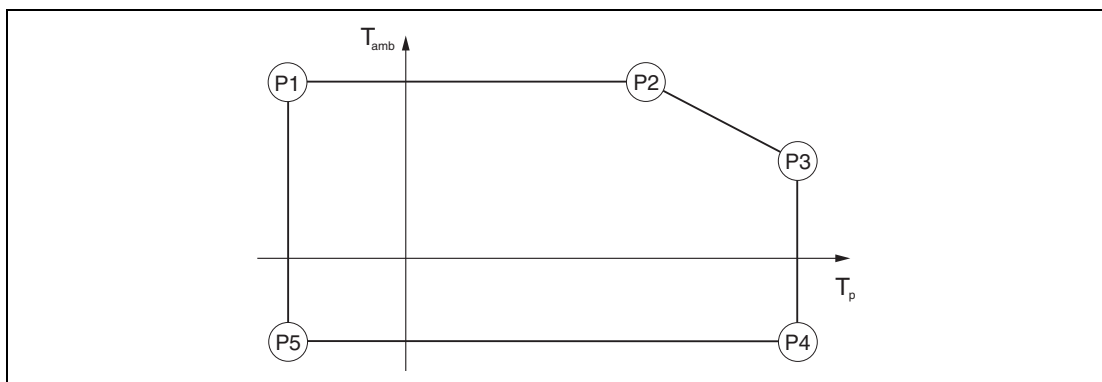


Figure 1

Class II, III, Div. 1



Note

Minimum ambient temperature -40 °C and minimum process temperature -50 °C.

- 1st column: basic specification, feature **Housing material**, options **A, D, G**
1st column: basic specification, feature **Application, temperature**, option **A, B**
- 2nd column: with or without optional specification, feature **Sensor design**, option **DF, TD**
- 3rd column: maximum load current
- 4th column: maximum permissible temperature in °C
- 5th column: maximum surface temperature in °C

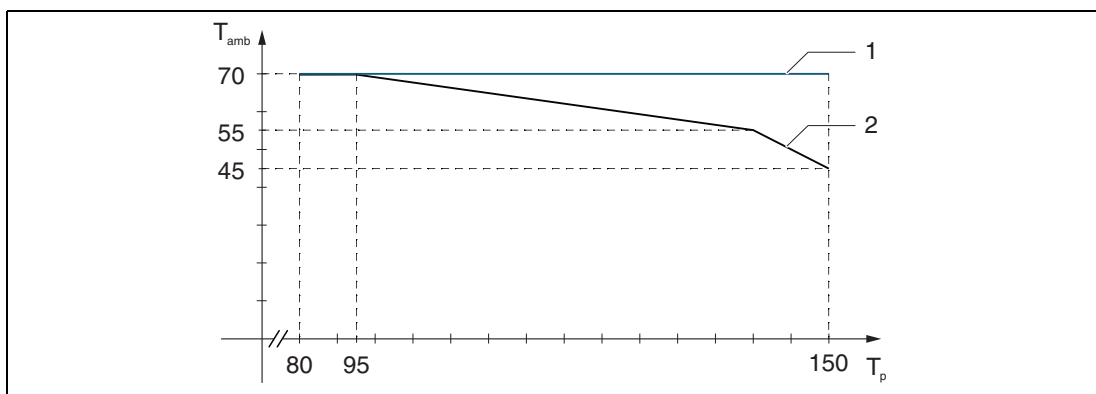


Figure 2

- T_{amb}** Ambient temperature in °C
- T_p** Process temperature in °C
- 1** with optional specification, feature **Sensor design**, option **DF, TD**
- 2** without optional specification, feature **Sensor design**, option **DF, TD**

Zone 0, Zone 1, Class I, Div. 1

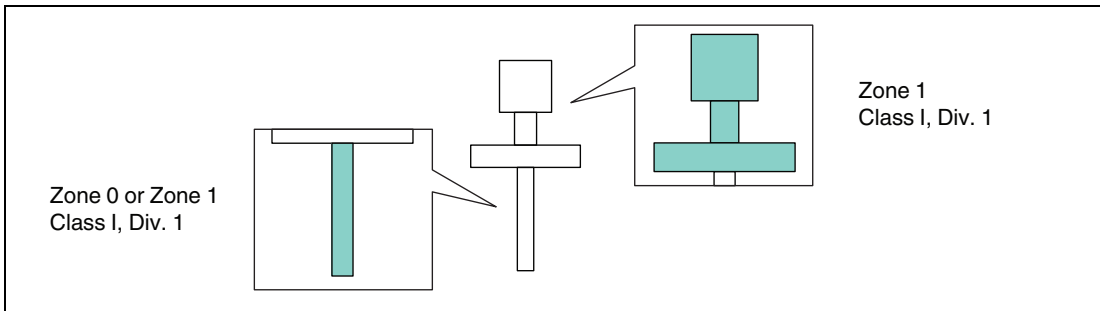


Figure 3

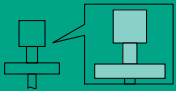
Basic specification, feature Electrical output, option A

Option A, G													
Option A, B													
				P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
	DF, TD	180 mA											
			T6	-50	70	70	70	75	55	75	-40	-50	-40
			T5	-50	70	70	70	90	55	90	-40	-50	-40
			T4	-50	70	70	70	125	40	125	-40	-50	-40
			T3	-50	70	70	70	150	30	150	-40	-50	-40
	DF, TD	180 mA											
			T6	-50	70	70	70	75	60	75	-40	-50	-40
			T5	-50	70	70	70	90	65	90	-40	-50	-40
			T4	-50	70	70	70	125	65	125	-40	-50	-40
			T3	-50	70	70	70	150	65	150	-40	-50	-40
	DF, TD	350 mA											
			T4	-50	70	70	70	125	55	125	-40	-50	-40
			T3	-50	70	70	70	150	55 50 ¹	150	-40	-50	-40

¹ If insulated

Table 1

Option D



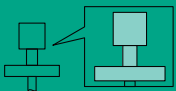
Option A, B

	DF, TD	180 mA		P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
			T6	-50	70	70	70	75	59	75	-40	-50	-40
			T5	-50	70	70	70	90	70	90	-40	-50	-40
			T4	-50	70	70	70	125	70	125	-40	-50	-40
			T3	-50	70	70	70	150	69	150	-40	-50	-40
	DF, TD	180 mA											
			T6	-50	70	70	70	75	62	75	-40	-50	-40
			T5	-50	70	70	70	90	70	90	-40	-50	-40
			T4	-50	70	70	70	125	70	125	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40
	DF, TD	350 mA											
			T4	-50	70	70	70	125	55	125	-40	-50	-40
			T3	-50	70	70	70	150	54	150	-40	-50	-40

Table 2

Basic specification, feature Electrical output, option E

Option A, G



Option A, B

	DF, TD	350 mA		P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
			T6	-50	70	70	70	75	70	75	-40 ¹ -50 ¹ -60 ²	-50	-40 ¹ -50 ¹ -60 ²
			T5	-50	70	70	70	90	70	90		-50	
			T4	-50	70	70	70	125	55	125		-50	
			T3	-50	70	70	70	150	45	150		-50	
	DF, TD	350 mA											
			T6	-50	70	70	70	75	70	75	-40 ¹ -50 ¹ -60 ²	-50	-40 ¹ -50 ¹ -60 ²
			T5	-50	70	70	70	90	70	90		-50	
			T4	-50	70	70	70	125	70	125		-50	
			T3	-50	70	70	70	150	70	150		-50	

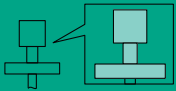
¹ only in connection with optional specification, feature **Test, certificate, declaration**, option **U1**

² only in connection with optional specification, feature **Test, certificate, declaration**, option **U2**

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Table 3

Option D



Option A, B

	DF, TD	350 mA		P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
			T6	-50	70	70	70	75	70	75	-40 -50 ¹ -60 ²	-50	-40 ¹
			T5	-50	70	70	70	90	70	90		-50	-50 ¹
			T4	-50	70	70	70	125	66	125		-50	-60 ²
			T3	-50	70	70	70	150	54	150		-50	-60 ²
	DF, TD	350 mA											
			T6	-50	70	70	70	75	70	75	-40 -50 ¹ -60 ²	-50	-40 ¹
			T5	-50	70	70	70	90	70	90		-50	-50 ¹
			T4	-50	70	70	70	125	70	125		-50	-60 ²
			T3	-50	70	70	70	150	70	150		-50	-60 ²

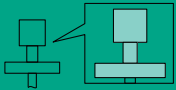
¹ only in connection with optional specification, feature **Test, certificate, declaration**, option **U1**

² only in connection with optional specification, feature **Test, certificate, declaration**, option **U2**

Table 4

Basic specification, feature Electrical output, option B, N

Option A, G



Option A, B

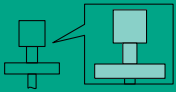
	DF, TD	2 A		P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
			T6	-50	52	52	52	75	40	75	-40 -50 ¹ -60 ²	-50	-40 ¹
			T5	-50	67	67	67	90	55	90		-50	-50 ¹
			T4	-50	70	70	70	125	47	125		-50	-60 ²
			T3	-50	70	70	70	150	38	150		-50	-60 ²
	DF, TD	2 A											
			T6	-50	52	52	52	75	50	75	-40 -50 ¹ -60 ²	-50	-40 ¹
			T5	-50	67	67	67	90	65	90		-50	-50 ¹
			T4	-50	70	70	70	125	67	125		-50	-60 ²
			T3	-50	70	70	70	150	65	150		-50	-60 ²

¹ only in connection with optional specification, feature **Test, certificate, declaration**, option **U1**

² only in connection with optional specification, feature **Test, certificate, declaration**, option **U2**

Table 5

Option D



Option A, B

			P1		P2		P3		P4		P5		
			T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	
	DF, TD	2 A											
			T6	-50	55	55	55	75	50	75	-40 ¹ -50 ¹ -60 ²	-50	-40 ¹
			T5	-50	70	70	70	90	65	90		-50	-50 ¹
			T4	-50	70	70	70	125	65	125		-50	-60 ²
			T3	-50	70	70	70	150	65	150		-50	-60 ²
	DF, TD	2 A											
			T6	-50	55	55	55	75	54	75	-40 ¹ -50 ¹ -60 ²	-50	-40 ¹
			T5	-50	70	70	70	90	68	90		-50	-50 ¹
			T4	-50	70	70	70	125	70	125		-50	-60 ²
			T3	-50	70	70	70	150	70	150		-50	-60 ²

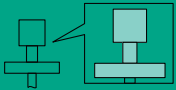
¹ only in connection with optional specification, feature **Test, certificate, declaration**, option **U1**

² only in connection with optional specification, feature **Test, certificate, declaration**, option **U2**

Table 6

Basic specification, feature Electrical output, option M

Option A, G, D



Option A, B

			P1		P2		P3		P4		P5		
			T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	
			T6	-50	70	70	70	75	70	75	-40 ¹ -50 ¹ -60 ²	-50	-40 ¹
			T5	-50	70	70	70	90	70	90		-50	-50 ¹
			T4	-50	70	70	70	125	70	125		-50	-60 ²
			T3	-50	70	70	70	150	70	150		-50	-60 ²

¹ only in connection with optional specification, feature **Test, certificate, declaration**, option **U1**

² only in connection with optional specification, feature **Test, certificate, declaration**, option **U2**

Table 7

Class I, Div. 2

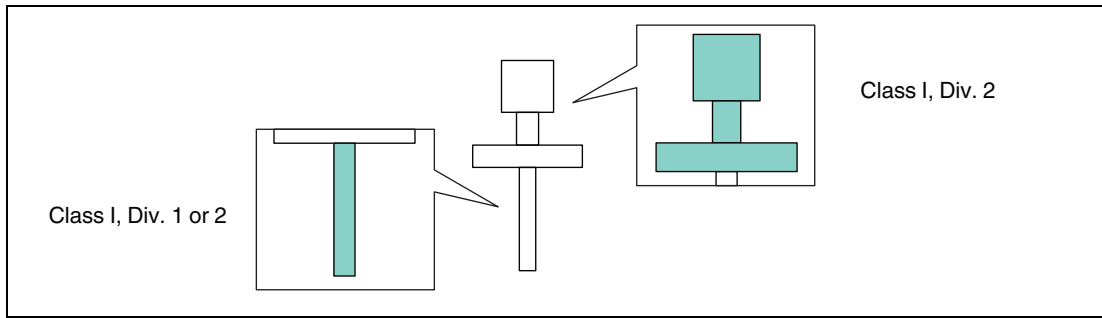


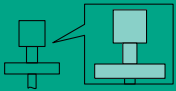
Figure 4

Basic specification, feature Electrical output, option A

Option A, G													
Option A, B													
				P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
	DF, TD	180 mA											
			T6	-50	60	60	60	80	50	80	-40	-50	-40
			T5	-50	70	70	70	90	70	90	-40	-50	-40
			T4	-50	70	70	70	130	70	130	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40
	DF, TD	180 mA											
			T6	-50	60	60	60	80	55	80	-40	-50	-40
			T5	-50	70	70	70	95	70	95	-40	-50	-40
			T4	-50	70	70	70	130	70	130	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40
	DF, TD	350 mA											
			T4	-50	70	70	70	130	70	130	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40

Table 8

Option D



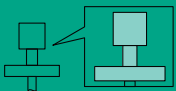
Option A, B

	DF, TD	180 mA		P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
			T6	-50	60	60	60	80	59	80	-40	-50	-40
			T5	-50	70	70	70	95	70	95	-40	-50	-40
			T4	-50	70	70	70	130	70	130	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40
	DF, TD	180 mA											
			T6	-50	60	60	60	80	60	80	-40	-50	-40
			T5	-50	70	70	70	95	70	95	-40	-50	-40
			T4	-50	70	70	70	130	70	130	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40
	DF, TD	350 mA											
			T4	-50	70	70	70	130	70	130	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40

Table 9

Basic specification, feature Electrical output, option E

Option A, G, D



Option A, B

	DF, TD	350 mA		P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
			T6	-50	70	70	70	80	70	80	-40	-50	-40
			T5	-50	70	70	70	95	70	95	-40	-50	-40
			T4	-50	70	70	70	130	55	130	-40	-50	-40
			T3	-50	70	70	70	150	45	150	-40	-50	-40
	DF, TD	350 mA											
			T6	-50	70	70	70	80	70	80	-40	-50	-40
			T5	-50	70	70	70	95	70	95	-40	-50	-40
			T4	-50	70	70	70	130	70	130	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40

Table 10

Basic specification, feature Electrical output, option B, N

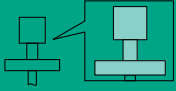
Option A, G, D													
													
Option A, B													
				P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
	DF, TD	2 A											
			T6	-50	52	52	52	80	40	80	-40	-50	-40
			T5	-50	67	67	67	95	55	95	-40	-50	-40
			T4	-50	70	70	70	130	47	130	-40	-50	-40
			T3	-50	70	70	70	150	38	150	-40	-50	-40
	DF, TD	2 A											
			T6	-50	52	52	52	80	50	80	-40	-50	-40
			T5	-50	67	67	67	95	65	95	-40	-50	-40
			T4	-50	70	70	70	130	67	130	-40	-50	-40
			T3	-50	70	70	70	150	65	150	-40	-50	-40

Table 11

Basic specification, feature Electrical output, option M

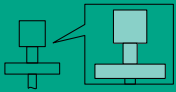
Option A, G, D													
													
Option A, B													
				P1		P2		P3		P4		P5	
				T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}	T _p	T _{amb}
			T6	-50	70	70	70	80	70	80	-40	-50	-40
			T5	-50	70	70	70	95	70	95	-40	-50	-40
			T4	-50	70	70	70	130	70	130	-40	-50	-40
			T3	-50	70	70	70	150	70	150	-40	-50	-40

Table 12

Class II, III, Div. 1

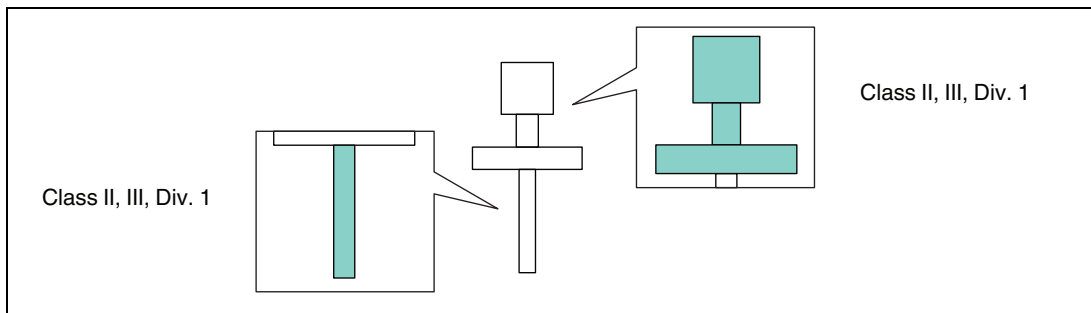


Figure 5

Basic specification, feature Electrical output, option A

Option A, G			
Option A, B			
	DF, TD	180 mA	
		$T_{amb} = 55$	T85
		$T_p = 80$	
		$T_{amb} = 50$	T100
		$T_p = 95$	
		$T_{amb} = 45$	T135
		$T_p = 130$	
		$T_{amb} = 35$	T155
		$T_p = 150$	
	DF, TD	350 mA	
		$T_{amb} = 60$	T85 to 100 ($T = T_p + 5\text{ K}$)
		$T_p = 80\text{ to }95$	
		$T_{amb} = 55$	T135 to 155 ($T = T_p + 5\text{ K}$)
		$T_p = 130\text{ to }150$	
		$T_{amb} = 55^1$	T135 ¹ ($T = T_p + 5\text{ K}$)
		$T_p = 130^1$	
		$T_{amb} = 50^1$	T155 ¹ ($T = T_p + 5\text{ K}$)
		$T_p = 150^1$	

¹ If insulated

Table 13

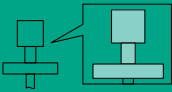
Option D				
				
Option A, B				
	DF, TD	180 mA		
			$T_{amb} = 59$	T85
			$T_p = 80$	
			$T_{amb} = 69$	T100 to 155 ($T = T_p + 5\text{ K}$)
			$T_p = 95\text{ to }150$	
	DF, TD	350 mA		
			$T_{amb} = 62$	T85
			$T_p = 80$	
			$T_{amb} = 70$	T100
			$T_p = 95$	
			$T_{amb} = 54$	T135 to 155 ($T = T_p + 5\text{ K}$)
			$T_p = 130\text{ to }150$	

Table 14

Basic specification, feature Electrical output, option E

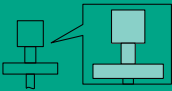
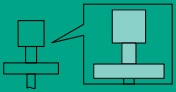
Option A, G				
				
Option A, B				
	DF, TD	350 mA		
			$T_{amb} = 70$	T85 to 100 ($T = T_p + 5\text{ K}$)
			$T_p = 80\text{ to }95$	
			$T_{amb} = 55$	T135
			$T_p = 130$	
			$T_{amb} = 45$	T155
			$T_p = 150$	
	DF, TD	350 mA		
			$T_{amb} = 70$	T85 to 155 ($T = T_p + 5\text{ K}$)
			$T_p = 80\text{ to }150$	

Table 15

Option D



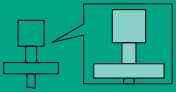
Option A, B

	DF, TD	350 mA		
			$T_{amb} = 70$	T85 to 100 ($T = T_p + 5\text{ K}$)
			$T_p = 80$ to 95	
			$T_{amb} = 66$	T135
			$T_p = 130$	
			$T_{amb} = 54$	T155
			$T_p = 150$	
	DF, TD	350 mA		
			$T_{amb} = 70$	T85 to 155 ($T = T_p + 5\text{ K}$)
			$T_p = 80$ to 150	

Table 16

Basic specification, feature Electrical output, option B, N

Option A, G, D



Option A, B

	DF, TD	2 A		
			$T_{amb} = 70$	T85
			$T_p = 80$	
			$T_{amb} = 66$	T95
			$T_p = 90$	
			$T_{amb} = 53$	T125
			$T_p = 120$	
			$T_{amb} = 40$	T155
			$T_p = 150$	
	DF, TD	2 A		
			$T_{amb} = 70$	T85 to 130 ($T = T_p + 5\text{ K}$)
			$T_p = 80$ to 125	
			$T_{amb} = 67$	T155 ($T = T_p + 5\text{ K}$)
			$T_p = 150$	

Table 17

Basic specification, feature Electrical output, option M

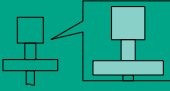
Option A, G, D 			
Option A, B			
		$T_{amb} = 70$	T85 to 155 ($T = T_p + 5\text{ K}$)
		$T_p = 80\text{ to }150$	

Table 18

8 Connection Data

Optional specification, feature **Accessory mounted**, option **BL, VB**

When using the Bluetooth® module: No changes to the connection values.

Basic specification, feature Electrical output

Option	Power supply circuit	Output
A	U = 19 to 253 V AC, 50/60 Hz $P_{max} < 2\text{ VA}$	$I_{max} = 180\text{ mA}$ ¹ $I_{max} = 350\text{ mA}$
E	U = 10 to 55 V DC $P_{max} < 0.5\text{ W}$ $P_{max} < 1.2\text{ W}^2$	$I_{max} = 350\text{ mA}$
B	U = 9 to 20 V DC $P_{max} < 1\text{ W}$ $P_{max} < 1.7\text{ W}^2$	2 potential free change-over contacts, 2 A
N	U = 19 to 253 V AC, 50/60 Hz or 19 to 55 V DC $P_{max} < 25\text{ VA}$ or $< 1.3\text{ W}$ $P_{max} < 31\text{ VA}$ or $< 2\text{ W}^2$	
M	U = 4 to 8.2 V DC	NAMUR, $I_{max} = 3.8\text{ mA}$

¹ Only in connection with basic specification, feature **Application, temperature**, option **A, B** and optional specification, feature **Sensor design**, option **DF, TD**

² Only in connection with basic specification, feature **Display, operation**, option **B**

Table 19

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- Intrinsic Safety Barriers
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- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity

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