

Type

BNA-.../.../...-M...-V/40/2-MN...-Z..S/..

Material quality:	1.4404 / 1.4435 / 1.4571 (316L / 316Ti)
Centre distance M / Length of instrument L:	150 ... 5000 mm
Specific gravity:	≥ 560 kg/m³
Design pressure:	-1 bar ... 6 bar
Design temperature:	-40°C ... 150°C

Design	
Chamber:	Ø 40.00 x 2.00 mm
Process connection:	Type key page 302
Chamber end top:	Page 324 - 325
Chamber end bottom:	Page 326 - 327
Float:	Page 308

Option magnetic roller indicator / Page 310	
Aluminium or Stainless steel / PocaN	-40°C ... 200°C

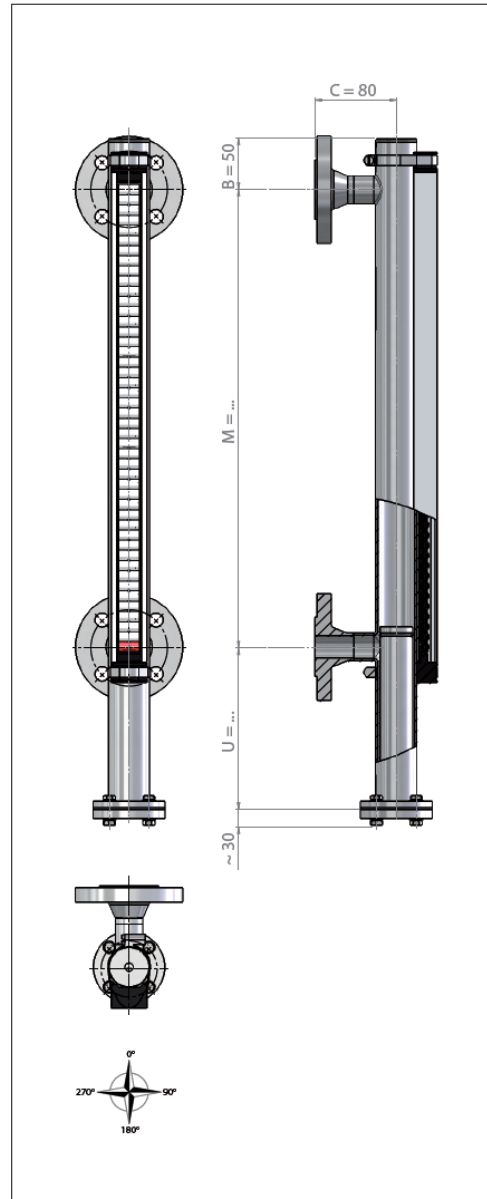
Option scale / Page 311	
Aluminium / Stainless steel	With adhesive foil / Engraving / Blank

Option magnetic switch / Page 318 - 321	
Aluminium / Stainless steel	-40°C ... 150°C

Option level transmitter / Page 312 - 316	
Accuracy / Reed contacts:	5 / 10 / 15 mm
Accuracy / Magnetostrictive:	0.2 mm
Control unit:	<ul style="list-style-type: none"> - Programmable - Hart-programmable / SIL2 - Profibus PA - Foundation Fieldbus

Option electrical heat tracing / Page 322	
Holding temperature:	~10°C / Frost protection

Option instrument isolation / Page 322 - 323	
Isolation:	Armaflex isolation / Rock-wool isolation



Approvals / Certificates



ATEX*	
II 1GD/2GD c	II 2GD c
Liquid temperature Ex max. 150°C	

The bypass level indicator-mini are based on a modular design and can be arranged individually.
Type key page 302 - 305

* = The approval is dependent on the equipment combination

Type**ALF../V../-M..**

Housing:	Aluminium anodized
Cable entry:	M20 x 1.5
Ingress protection class:	IP 65
Ambient temperature:	-40°C ... 100°C
Level transmitter tube material quality:	Stainless steel
Mounting:	Tension strap
Minimum measures:	T: 27 mm / L1: 40 mm / Ub: 50 mm

Accuracy

Accuracy: 5 / 10 / 15 mm

Ambient temperature

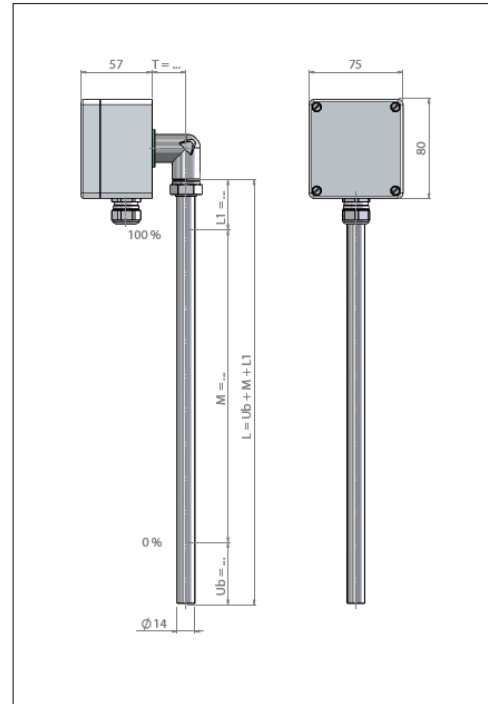
- K5 / K10 / K15:	-30°C ... 130°C
- K5HTF / K10HTF / K15HTF:	-30°C ... 200°C
- K5HT / K10HT / K15HT:	-40°C ... 250°C

Option control unit / Page 312

Control unit:	- Programmable - Hart-programmable / SIL2 - Profibus PA - Foundation Fieldbus
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Approvals / Certificates

ATEX / GOST / GL / BV / DNV / ABS

**Type****ALDA../V../EXDG-M..**

Housing:	Aluminium coated RAL 9006
Cable entry:	M20 x 1.5
Ingress protection class:	IP 68
Ambient temperature:	-40°C ... 100°C
Level transmitter tube material quality:	Stainless steel
Mounting:	Tension strap
Minimum measures:	T: 50 mm / L1: 40 mm / Ub: 50 mm

Accuracy

Accuracy: 5 / 10 / 15 mm

Ambient temperature

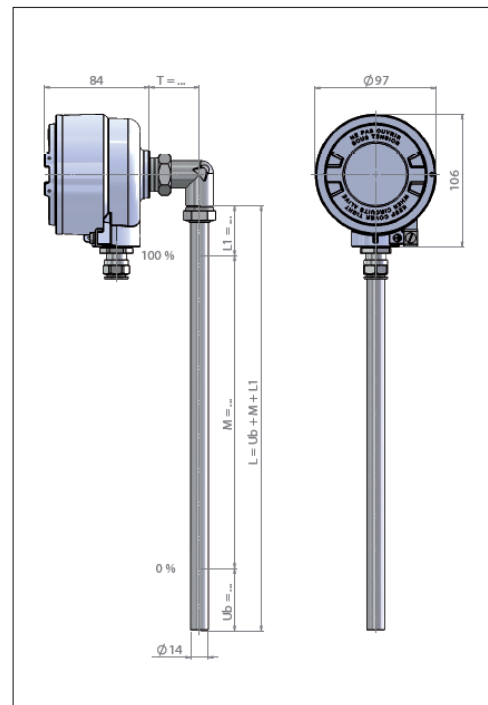
- K5 / K10 / K15:	-30°C ... 120°C
- K5HTF / K10HTF / K15HTF:	-30°C ... 120°C
- K5HT / K10HT / K15HT:	-40°C ... 120°C

Option control unit / Page 312

Control unit:	- Programmable - Hart-programmable / SIL2 - Profibus PA - Foundation Fieldbus
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Approvals / Certificates

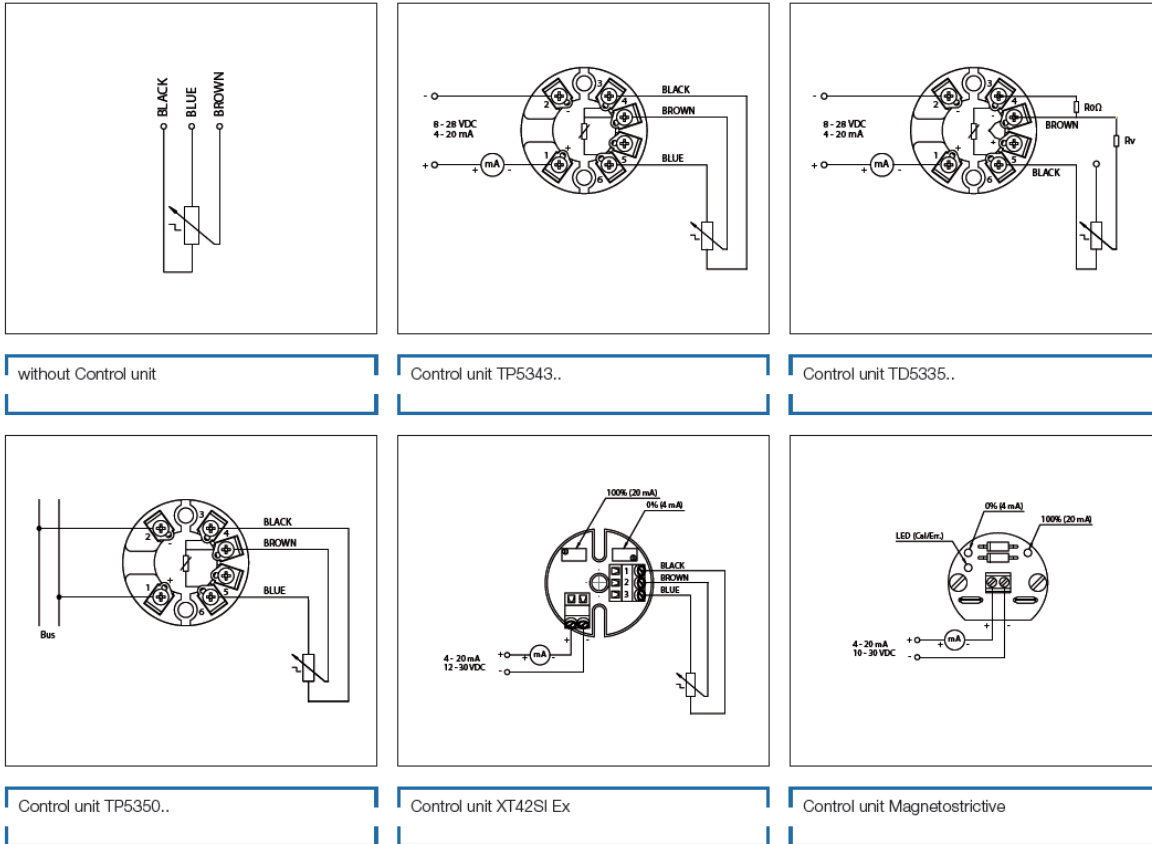
ATEX / GOST / GL / BV / DNV / ABS



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Type key page 302 - 305

Connection diagram



Some further data according to chapter Control Units 1011

Approvals / Certificates



ATEX-Approval for accuracy K5.. / K10.. / K15..*

II 1/2G Ex ia c IIC T6 - T4	II 1/2G Ex ia c IIC T6 - T3 bzw. Ex d ia c IIC T6 - T4	II 2G Ex d c IIC T6 - T4
II 1/2G Ex d ia c IIC T6 - T4	II 2D Ex tD A21 c IP6* T80°C - T190°C bzw. T125	
Liquid temperature Ex ia max. 180°C / Exd max. 120°C		
Type of protection intrinsic safety Ex ia IIC switch bzw. temperature switch	$I_i \leq 100 \text{ mA}$	
Type of protection intrinsic safety Ex ia IIC temperature probe	$U_i \leq 28 \text{ V}$	$I_i \leq 100 \text{ mA}$ $P_i \leq 700 \text{ mW}$
Type of protection intrinsic safety Ex ia IIC with option /N (NAMUR EN 60947)	$U_i \leq 15 \text{ VDC}$	$I_i \leq 60 \text{ mA}$
Type of protection „moulding“	$U_N \leq 250 \text{ VDC/AC}$	$P_{SN} \leq 50 \text{ W/VA}$ $P_{FN} \leq 700 \text{ mW}$
Type of protection „moulding“ with option /N (NAMUR EN 60947)	$U_N \leq 15 \text{ VDC}$	$I_N \leq 60 \text{ mA}$
Type of protection „moulding“ with option /R22 (resistor)	$U_N \leq 250 \text{ VDC/AC}$	$I_N \leq 100 \text{ mA}$

ATEX-Approval for accuracy K1..*

II 1/2G Ex ia c IIC T6 - T2	II 1G Ex ia IIC T4 - T2	
II 1/2G Ex ia IIC T6 - T2	II 2G Ex d IIC T4	
Type of protection intrinsic safety Ex ia IIC	$U_i \leq 30 \text{ V}$	$I_i \leq 200 \text{ mA}$ $P_i \leq 1000 \text{ mW}$
Temperature class	T6	T5 T4 - T2
Ambient temperature(T_a)	-20°C ... 40°C	-20°C ... 55°C -20°C ... 85°C
Liquid temperature(T_l)	-20°C ... 60°C	-20°C ... 60°C

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