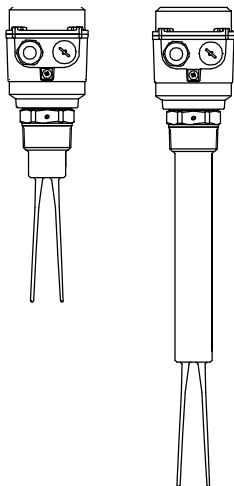


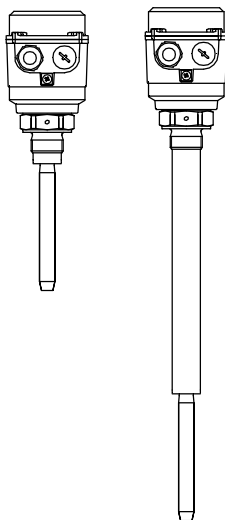
Vibranivo®

**Serie
VN 4000**



Mononivo®

**Serie
MN 4000**



Betjeningsvejledning

010516

UWT GmbH
Westendstraße 5
D-87488 Betzigau

Tel.: +49 (0)831 57123-0 Internet:www.uwt.de
Fax: +49 (0)831 76879 E-Mail: info@uwt.de

Denne betjenings- vejledning gælder for:	Typer	VN 4020 4030 MN 4020 4030
	Godkendelse	CE / TR-CU ATEX 1/2D IEC-Ex t IIIC
	Elektronikmoduler	Relæ (DPDT) PNP

Indholdsfortegnelse

Sikkerhedshenvisninger/advarsler	Side	4
Anvendelsesområde	Side	4
Tekniske data	Side	4
Anvendelse	Side	11
Montering	Side	13
Reservedele	Side	18
Elektrisk tilslutning	Side	19
Koblingslogik	Side	21
Vedligeholdelse	Side	22
ATEX / IEC-Ex Henvisninger	Side	23

Sikkerhedshenvisninger/ advarsler

Installation, vedligeholdelse og ibrugtagning må udelukkende udføres af kvalificerede fagfolk.

I forbindelse med den elektriske tilslutning skal de lokale bestemmelser eller VDE 0100 overholdes

Alle forbindelseskabler skal være isoleret til mindst 250 V AC driftsspænding. Temperaturbestandigheden skal være mindst 90°C (194°F).

Sikkerheden kan ikke garanteres ved uhensigtsmæssig anvendelse af apparatet.

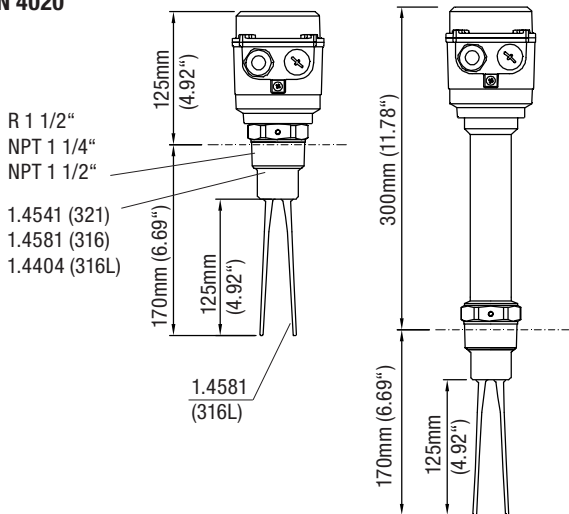
Anvendelsesområde






Niveau-stopknap til niveaumåling i pulverformet og granuleret styrtgods.

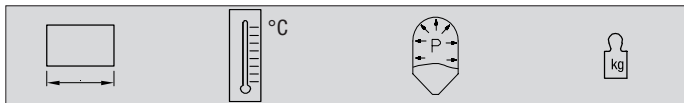
Tekniske data



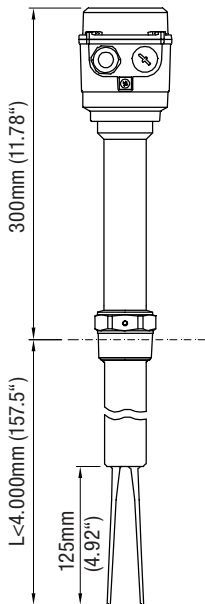
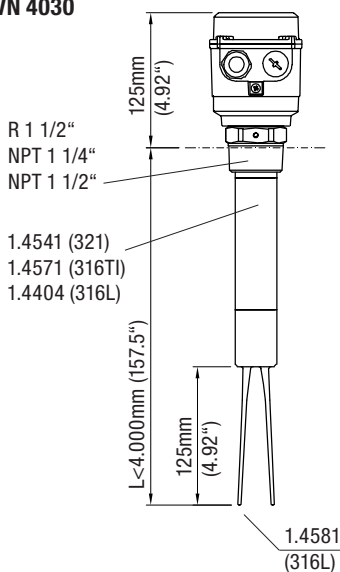
VN 4020



	① → 	② → 
	-1 .. +16bar (-14.5 .. +232psi)	-1 .. +16bar (-14.5 .. +232psi)
	~ 1,7kg (3.7 lbs)	~ 2,4kg (5.3 lbs)



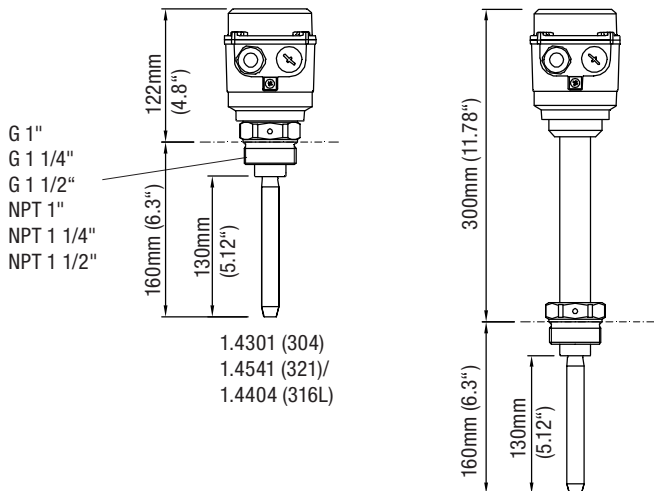
VN 4030



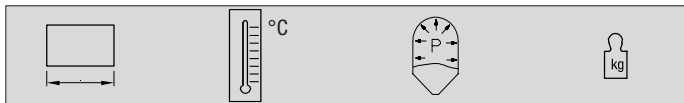
	① / ② → ⑨	② → ⑨
	-1 .. +16bar (-14.5 .. +232psi)	-1 .. +16bar (-14.5 .. +232psi)
	~1,7kg (3.7lbs) +1,9kg/m (+4.2 lbs per 39.9" (L))	~2,4kg (5.3lbs) +1,9kg/m (+5.5 lbs per 39.9" (L))



MN 4020

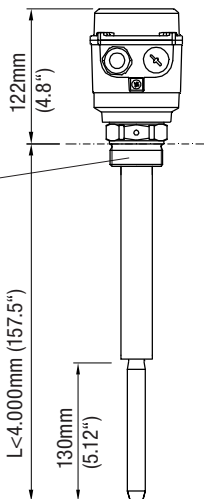


	① →	② →
	-1 .. +16bar (-14.5 .. +232psi)	-1 .. +16bar (-14.5 .. +232psi)
	~ 1,3kg (2.9 lbs)	~ 2,0kg (4.5 lbs)

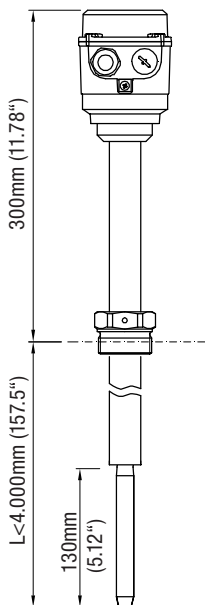


MN 4030

G 1"
 G 1 1/4"
 G 1 1/2"
 NPT 1"
 NPT 1 1/4"
 NPT 1 1/2"



1.4301 (304)
 1.4541 (321)/
 1.4404 (316L)

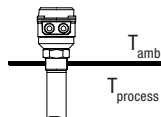
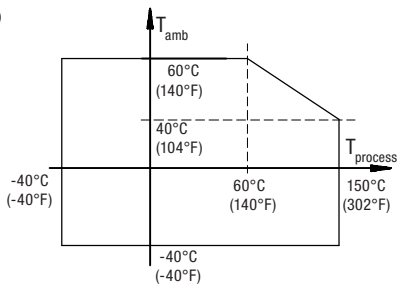


	① / ② → ⑨	② → ⑨
	-1 .. +16bar (-14.5 .. +232psi)	-1 .. +16bar (-14.5 .. +232psi)
	~1,3kg (2.9lbs) +1,3kg/m (+2.9 lbs per 39.9") (L)	~2,0kg (4.5lbs) +1,3kg/m (+2.9 lbs per 39.9") (L)

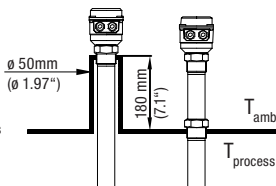
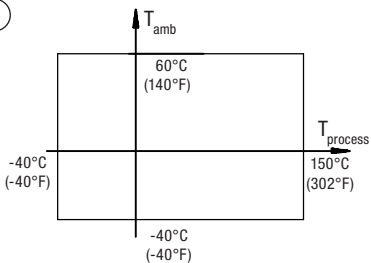


°C

1

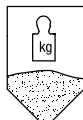


2



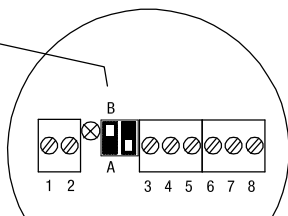
Følsomhed

VN 4000

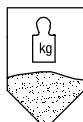


>30 g/l	B
>150 g/l	A

$$1\text{g/l} = 0.06 \text{ lb/ft}^3$$

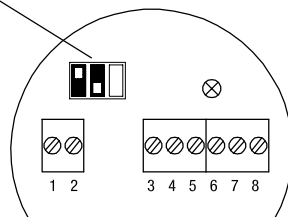


MN 4000

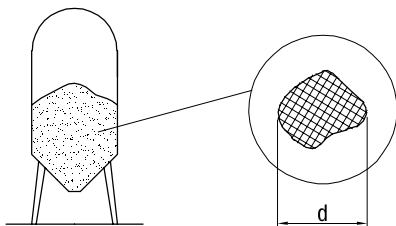


>20 g/l	
>80 g/l	
>150 g/l	
>300 g/l	

$$1\text{g/l} = 0.06 \text{ lb/ft}^3$$



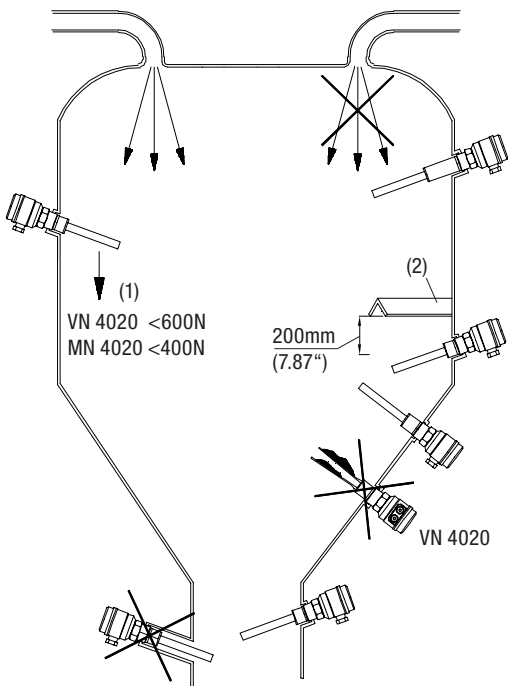
Styrtgods



VN 4000:
 $d < 8\text{mm}$ (0.31")

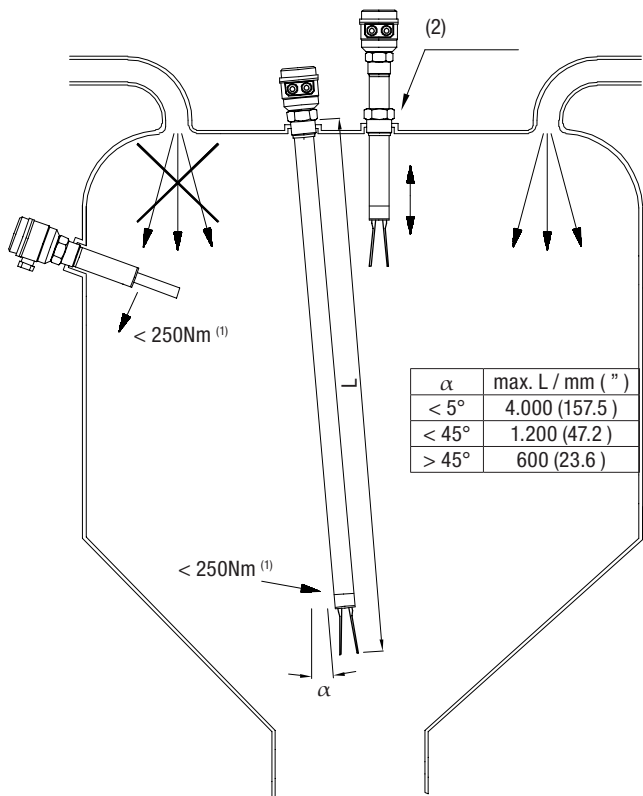
MN 4000:
 $d < 20\text{mm}$ (0.79")

VN 4020
MN 4020



- (1) Mek. krystalbelastning
- (2) Stålvinkler ved høje mekaniske belastninger

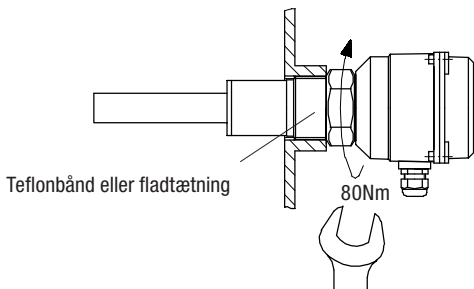
VN 4030
MN 4030



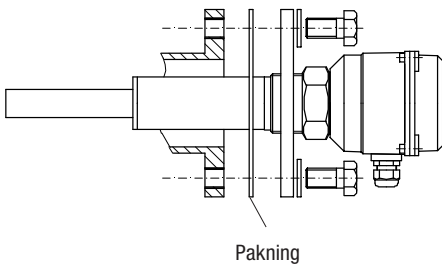
- (1) Mek. krystalbelastning
(2) Stålvinkler ved høje mekaniske belastninger

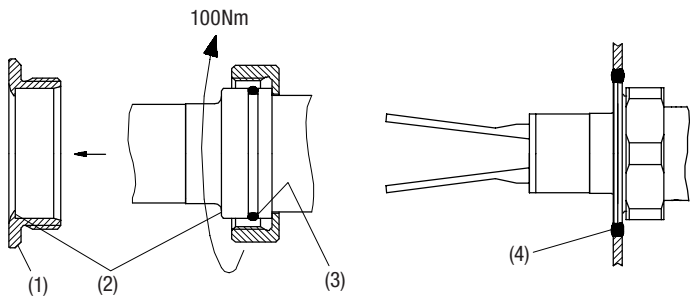
Montering

Fastgørelse



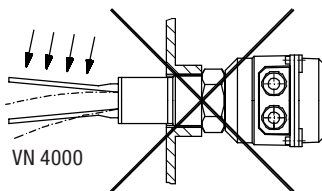
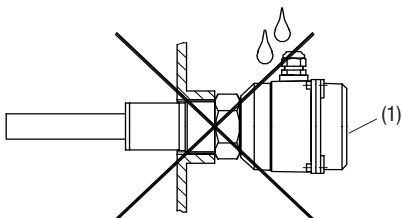
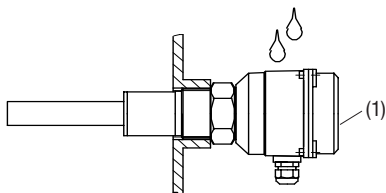
Fastgørelse





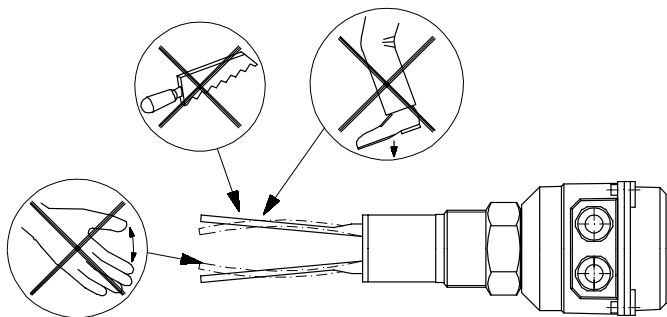
- (1) Certificeret påsvejsningsmuffe obligatorisk
- (2) Metal-metallag uden afstand
- (3) Tætningsring
- (4) Sammensvejsning (se hygiejneforskrifterne)

Positionering

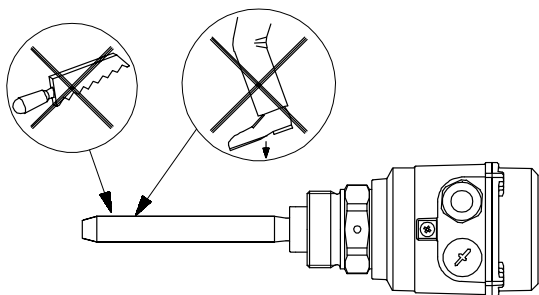


(1) Beskyttelsesmåde IP67

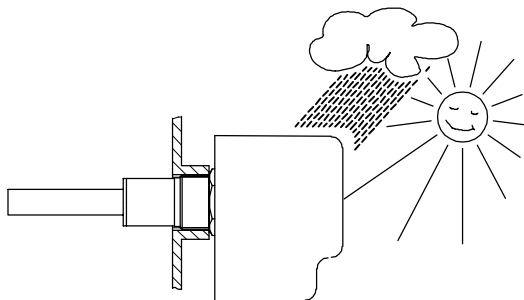
VN 4000



MN 4000

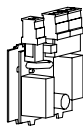


Option: Kappe til beskyttelse mod vejrforhold



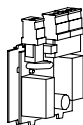
til Ex kun tilladt til zone 22

VN 4000



19...230V 50/60 Hz 19...40V DC	pl408265
18...50V DC PNP	pl408266

MN 4000



21...230V 50/60 Hz 22...45V DC	pl405265
18...50V DC PNP	pl405266

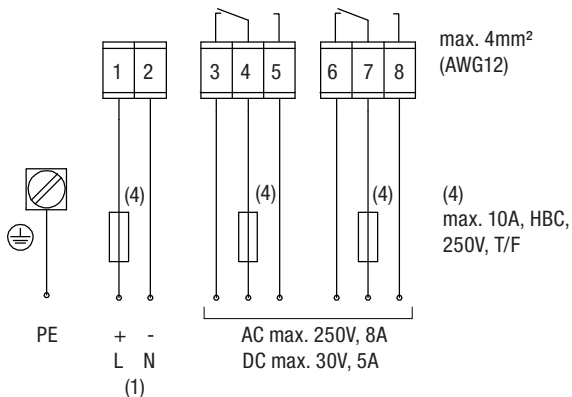
Elektrisk tilslutning

Alle elektronikmoduler: Overspændningskategori II

Relæ DPDT

VN 4000

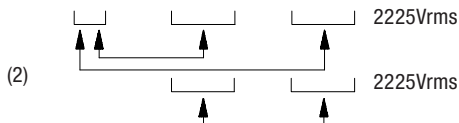
MN 4000



(1)

VN 4000: 19...230V $\pm 10\%$ ⁽³⁾ 50-60Hz 22VA 19... 40V $\pm 10\%$ ⁽³⁾ DC 2W

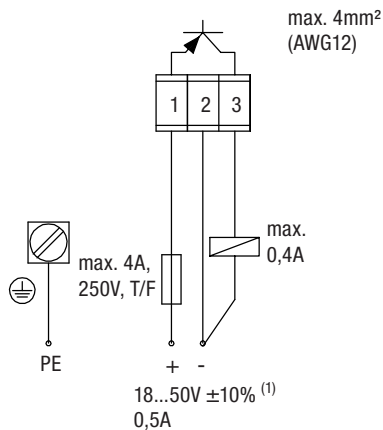
MN 4000: 21...230V $\pm 10\%$ ⁽³⁾ 50-60Hz 22VA 22... 45V $\pm 10\%$ ⁽³⁾ DC 2W



(1) Forsyningsspænding

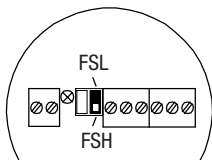
(2) Isoleringsspænding

(3) inklusive 10 % fra EN 61010

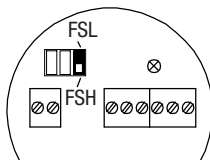
VN 4000
MN 4000

(1) Forsyningsspænding, inklusive 10 % fra EN 61010

VN 4000



MN 4000



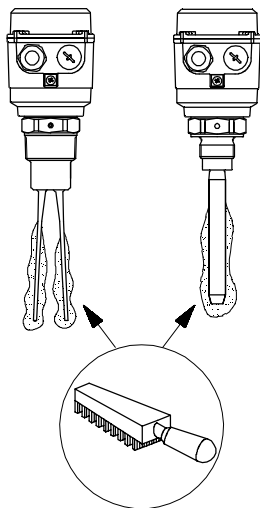
	FSL	FSH	
			(1)
			(2)
			(1)
			(2)

(1) = Relæ DPDT

(2) = PNP

VN 4000

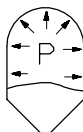
MN 4000



ATEX II 1/2D + IEC-Ex t IIIC Da/Db

Henvisninger

Tilladt relativtryk



-0,2...+0,1bar
(-2.9...+1.45psi)

Zonegrænser

	VN 4020	MN 4020	VN 4030 MN 4030
(1) 2D			
(2) Db			
(3) 21			
(1) 1D			
(2) Da			
(3) 20			

(1) Kategori (2) EPL(IEC-Ex) (3) Zone

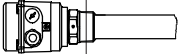
Omgivende temperatur

maks. overfladetemperatur

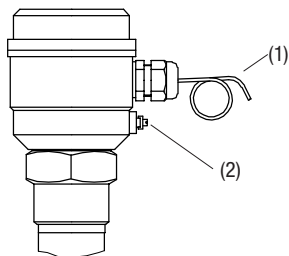


VN 4000
MN 4000

60°C (140°F)	110°C (230°F) 120°C (248°F) 130°C (266°F) 140°C (284°F) 150°C (302°F)	115°C (239°F) 120°C (248°F) 130°C (266°F) 140°C (284°F) 150°C (302°F)
-----------------	---	---



Montering



- (1) Mek. aflastning skal sikres
- (2) Tilsluttes til potentialudligning

ATEX / IEC-Ex: Yderligere henvisninger

Ved montering og tilslutning skal de pågældende forskrifter i opførelseslandet overholdes.

Ibrugtagning kun ved lukket apparat.

Apparatet må udelukkende åbnes i spændingsfri tilstand.

Inden åbning af apparatet skal det sikres, at der ikke er nogen støvaflejring, og at der ikke hvirvler støv op.

Monteringen skal udføres, således at der ikke kan dannes gnister mellem aluminiumskabinettet og stål, når man støder mod eller stryger hen over apparatet.

Hvis apparatet installeres som helhed i zone 20 (dvs. uden skillevæg mellem zone 20 og 21), må kortslutningsstrømmen for forsyningsspændingen ikke overstige 10 kA (detaljer fra EN 60079-14 skal overholdes)

Kabelforskrninger:

Udførelsen skal ske i henhold til installationslandets retningslinjer.

Ubenyttede kabelindgange skal lukkes ved hjælp af blindpropper, der er godkendt til dette formål.

Om muligt skal producentens leverede dele anvendes. Der skal sikres en aflastning for de kabelforskrninger, producenten har leveret.

Forbindelseskablernes diameter skal passe til kabelforskrningernes klemområde.

Hvis der anvendes andre dele end de dele, producenten har leveret, skal nedenstående sikres:

Delene skal have en godkendelse, der passer til niveaudetektorens godkendelse (certifikat og beskyttelsesmåde).

Den tilladte driftstemperatur skal være i overensstemmelse med den minimale omgivende temperatur for niveaudetektoren samt den maksimale omgivende temperatur for niveaudetektoren, som er øget med 10 K.

Delene skal monteres i henhold til producentens manual.