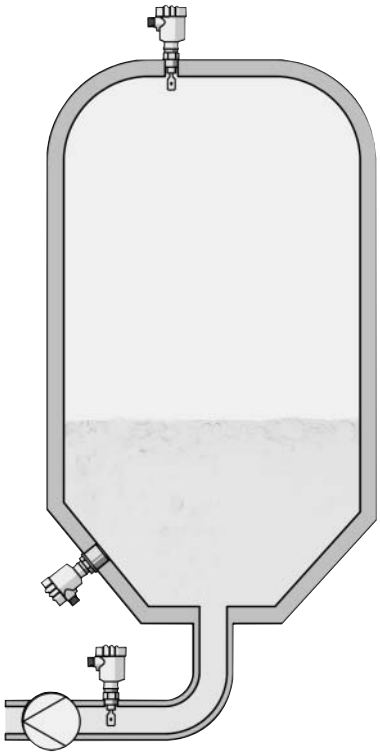
Switching - Vibration

VEGASWING:

For manifold applications in liquids

The piezo drive is the heart of VEGASWING activating the tuning fork to vibrate on its resonance frequency. The frequency of the fork reduces with the immersion. The frequency change is evaluated by the integrated oscillator and converted into a switching command. The piezo drive is screwed to ensure reliability and ruggedness. With a tuning fork with only 40 mm length, VEGASWING 60 works reliably in all liquids and installation positions. Pressure, temperature, foam and bubbles or even viscosity do not influence the switching accuracy. Also pipelines with a nominal width of DN 25 are no problem.



VEGAVIB:

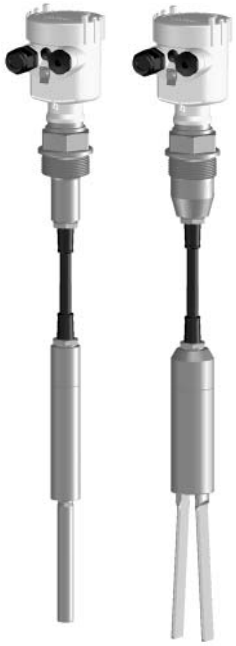
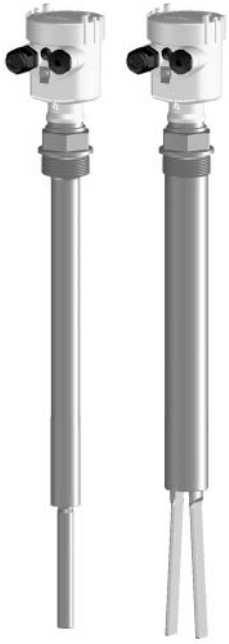
Reliable switching in solids

The vibrating rod of VEGAVIB is agitated via piezo ceramic elements. If the vibrating rod is immersed, the amplitude will be damped. An amplitude change is evaluated in the oscillator and converted into a switching command. Due to the rod design, it is almost impossible for material to build up or get wedged in (e.g. granules). Typical applications are overfill and dry run protection systems, e.g. in flour, milk powder, sand, cement and plastic granules. As the installation position and granulation size do not influence the measurement, an adjustment with medium is not necessary.

In applications where the single rod vibrating switch reaches its limits, the tuning fork should be used. Hence, the new VEGAVIB range offers the suitable instrument for all applications.

Overview

	VEGASWING 51	VEGASWING 61	VEGASWING 63	VEGASWING 71A
				
Applications:	level detection in liquids	level detection in liquids	level detection in liquids	level detection in liquids
Version:	standard version	standard version	with tube extension up to 4 m	standard version
Material:	316L	316L Hastelloy C4; enamel; ECTFE; PFA	316L Hastelloy C4; enamel; ECTFE; PFA	316Ti
Process fitting:	from G¾A	from G¾A	from G¾A	G1A; 1 NPT

	VEGAVIB 55	VEGAVIB 61 VEGAVIB 65	VEGAVIB 62 VEGAVIB 66	VEGAVIB 63 VEGAVIB 67
				
Applications:	level detection in solids	level detection in solids	level detection in solids	level detection in solids
Version:	standard version	standard version	with suspension cable up to 25 m	with tube extension up to 6 m
Process fitting:	G1½A	VEGAVIB 61: from G1A VEGAVIB 65: G1½A	from G1½A	VEGAVIB 63: from G1A VEGAVIB 67: G1½A
Replacement for:	---	VEGAVIB 41, 51	VEGAVIB 52	VEGAVIB 43, 53

VEGASWING 61

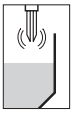
Compact vibrating level switch for liquids

For universal use as overfill or dry run protection system

- setup without adjustment
- screwed piezo drive
- SIL 2 qualified
- product-independent switching point with high reproducibility
- wear and maintenance-free
- instrument from the plics® family

SPEED

plics®



Approval

XX without
XA Overfill protection acc. to WHG
CA ATEX II 1G, 1/2G EEx ia IIC T6 + WHG [1]
DA ATEX II 1/2G EEx d IIC T6 + WHG [2]
CM ATEX II 1G, 1/2G,2G EEx ia IIC T6 + ship approval
DM ATEX II 1/2G,2G EEx d IIC T6 + ship approval [2]
XM Ship approval
CU FM Zone 0 Division 1 intrinsically safe [1]
DU FM Zone 0 Division 1 explosion proof [2]
XU FM Zone 2 Division 2

Process connection/Material

GBV Thread G¾A PN64/316L
GBA Thread G¾A PN64/Hastelloy C4(2.4610)
NBV Thread ¾NPT PN64/316L
GAV Thread G1A PN64/316L
NAV Thread 1NPT PN64/316L
CCP Tri-Clamp 1" PN16/316L Ra<0.8µm
RAP Bolting DN40PN40 DIN11851/316L Ra<0.8µm
TAP Tuchenhagen Varivent PN25/316L Ra<0.8µm
FPV Flange DN25PN40 Form C,DIN 2501/316L
FPH Flange DN25PN40 Form C,DIN 2501/ECTFE [3]
FPE Flange DN25PN40 Form C,DIN 2501/enamelled [3]
FEV Flange DN50PN40 Form C,DIN 2501/316L
FEH Flange DN50PN40 Form C,DIN 2501/ECTFE [3]
FEF Flange DN50PN40 Form C,DIN 2501/PFA [3]
FEE Flange DN50PN40 Form C,DIN 2501/enamelled [3]
APV Flange 1"150lb ANSI B16.5/316L
APH Flange 1"150lb RF,ANSI B16.5/ECTFE [3]
APE Flange 1"150lb RF,ANSI B16.5/enamelled [3]
ACV Flange 2"150lb RF,ANSI B16.5/316L
ACH Flange 2"150lb RF,ANSI B16.5/ECTFE [3]
ACE Flange 2"150lb RF,ANSI B16.5/enamelled [3]

Adapter/Process temperature

X without/-50...150°C
T with/-50...250°C
G gas-tight bushing/-50...150°C
D with/gas-tight bushing/-50...250°C

Housing/Cable entry

P Plastic PBT IP66/67/M20x1.5
M Aluminium plastic coated IP66/IP67/M20x1.5
U Aluminium plastic coated IP66/IP67/½NPT
V Stainless steel 316L IP66/67/M20x1.5

Electronics

C Contactless electronic switch 20...250VAC/DC
R Double relay (DPDT) 20...72VDC/20...250VAC (5A)
T Floating transistor (NPN/PNP) 10...55VDC
Z Two-wire for connection to VEGATOR (12...36 VDC)
N NAMUR signal acc. to IEC 60947-5-6

Switching point

X Standard
L as SWING81 or 81A

SWING61.						

[1] Only in conjunction with electronics "Z" and "N"

[2] Only in conjunction with housing "U"

[3] Delivery time: more than 5 working days

- Material ECTFE/PFA: only in conjunction with temperatures -50 … 150°C
- Material enamel: only in conjunction with temperatures -50 … 200°C; not with electronics “C“ and “T“
- Further process fittings and options on request

VEGASWING 63

Compact vibrating level switch for liquids

For universal use as overfill or dry run protection system

- setup without adjustment
- screwed piezo drive
- SIL 2 qualified
- product-independent switching point with high reproducibility
- wear and maintenance-free
- instrument from the plics® family

Approval

XX	without
XA	Overfill protection acc. to WHG
CA	ATEX II 1G, 1/2G EEx ia IIC T6 + WHG [1)]
DA	ATEX II 1/2G, 2G EEx d IIC T6 + WHG [2)]
CM	ATEX II 1G, 1/2G,2G EEx ia IIC T6 + ship approval
DM	ATEX II 1/2G EEx d IIC T6 + ship approval [2)]
XM	Ship approval
CU	FM Zone 0 Division 1 intrinsically safe [1)]
DU	FM Zone 0 Division 1 explosion proof [2)]
XU	FM Zone 2 Division 2

Continuation see next page

Process connection/Material

GBV Thread G¾A PN64/316L
GBA Thread G¾A PN64/Hastelloy C4(2.4610)
NBV Thread ¾NPT PN64/316L
GAV Thread G1A PN64/316L
NAV Thread 1NPT PN64/316L
CCP Tri-Clamp 1" PN16/316L Ra<0.8µm
RAP Bolting DN40PN40 DIN11851/316L Ra<0.8µm
TAP Tuchenhagen Varivent PN25/316L Ra<0.8µm
FPV Flange DN25PN40 Form C,DIN 2501/316L
FPH Flange DN25PN40 Form C,DIN 2501/ECTFE [3]
FPE Flange DN25PN40 Form C,DIN 2501/enamelled [3]
FEV Flange DN50PN40 Form C,DIN 2501/316L
FEH Flange DN50PN40 Form C,DIN 2501/ECTFE [3]
FEF Flange DN50PN40 Form C,DIN 2501/PFA [3]
FEE Flange DN50PN40 Form C,DIN 2501/enamelled [3]
APV Flange 1"150lb ANSI B16.5/316L
APH Flange 1"150lb RF,ANSI B16.5/ECTFE [3]
APE Flange 1"150lb RF,ANSI B16.5/enamelled [3]
ACV Flange 2"150lb RF,ANSI B16.5/316L
ACH Flange 2"150lb RF,ANSI B16.5/ECTFE [3]
ACE Flange 2"150lb RF,ANSI B16.5/enamelled [3]

Adapter/Process temperature

X without/-50...150°C
T with/-50...250°C
G gas-tight bushing/-50...150°C
D with/gas-tight bushing/-50...250°C

Housing/Cable entry

P Plastic PBT IP66/67/M20x1.5
M Aluminium plastic coated IP66/IP67/M20x1.5
U Aluminium plastic coated IP66/IP67/½NPT
V Stainless steel 316L IP66/67/M20x1.5

Electronics

C Contactless electronic switch 20...250VAC/DC
R Double relay (DPDT) 20...72VDC/20...250VAC (5A)
T Floating transistor (NPN/PNP) 10...55VDC
Z Two-wire for connection to VEGATOR (12...36 VDC)
N NAMUR signal acc. to IEC 60947-5-6

SWING63. | | | | | |

[1] Only in conjunction with electronics "Z" and "N"
[2] Only in conjunction with housing "U"; L max. = 3000 mm
[3] Delivery time: more than 5 working days

Total length in mm

per 100 mm of 316L
per 100 mm of ECTFE
per 100 mm of PFA
per 100 mm of Hastelloy C4 (2.4610)
per 100 mm of 316L, Ra <=0.8µm
enamelled Version (300, 400, 500, 600 mm) once
enamelled Version other length (80...1500 mm) once

Length: ☐ mm (switching point + 13 mm) (min. 80 mm; max. 6000 mm)

- Material ECTFE/PFA: only in conjunction with temperatures -50 … 150°C
- Material enamel: only in conjunction with temperatures -50 … 200°C; not with electronics “C“ and “T“
- Further process fittings and options on request

VEGASWING 51

Vibrating level switch for liquids

For universal use as overfill or dry run protection system

- setup without adjustment
- very high reproducibility
- product-independent switching point
- wear and maintenance-free
- smallest mounting dimensions

SPEED

Approval

XX without

XA Overfill protection acc. to WHG

XM Ship approval

Version/Process temperature

S Standard/-40...100°C

process connection/Material

GB Thread G¾A PN64/316L

NB Thread ¾NPT PN64/316L

GA Thread G1A PN64/316L

NA Thread 1NPT PN64/316L

Electronics

C Contactless electronic switch 20...250 V AC/DC

T Transistor output PNP 10...55 V DC

Housing

P 316L

Electrical connection/Protection

M M12x1/IP67 [1)]

V acc. to DIN 43650 incl. plug/IP 65

Q acc. to DIN 43650 incl. plug with QuickOn connect./IP65

SG51.						

[1)] Not in conjunction with electronics "C"

Accessory Axial plug suitable for connection M12x1 with 5 m fix connected cable — Article no. 2.28400

VEGASWING 71 A

Compact vibrating level switch for liquids

For universal use as overfill or dry run protection system

- setup without adjustment
- screwed piezo drive
- very high reproducibility
- product-independent switching point
- wear and maintenance-free

SPEED

Approval
.X without
.A Overfill protection acc. to WHG

Process connection
GA Thread G1A/1.4571(316Ti)
NA Thread 1NPT/316Ti

Material
V 316Ti or 1.4581

Process temperature
X -40...150°C

Housing/Connection
S 316Ti with plug/IP66/IP67

Electronics
C Contactless switch 20...250VAC/DC
T Floating transistor (NPN/PNP) 10...55VDC

SWING71A						

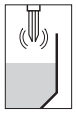
Accessory

Test magnet for function test	Article no. 2.20745
Axial plug with 5 m fix connected cable for transistor output, protection IP 66/IP 67	Article no. 2.22588
Axial plug with 5 m fix connected cable for contactless electronic switch mode (A) overfill protection, protection IP 66/IP 67	Article no. 2.22587
Axial plug with 5 m fix connected cable for contactless electronic switch mode (B) dry run protection, protection IP 66/IP 67	Article no. 2.26035

Welded sockets for VEGASWING 51, 61, 63 and 71A

- for thread G¾A of 1.4435 with O-ring in front with welding marking for defined fork orientation ..... Article no. GSTSW.GBE .....
- for thread G1A of 1.4435 with O-ring in front with welding marking for defined fork orientation [1] ..... Article no. GSTSW.GAE .....
- for conus DN 25 of 1.4435 ..... Article no. 2.25066 .....
- for conus M52 of 1.4435 ..... Article no. 2.25845 .....
- welded socket G1 for VEGASWING 71A ..... Article no. GSTSW.G1E .....
- welded socket G¾ for tube diameter DN 25… DN 50 ..... Article no. 2.28393 .....

[1] Welded socket G1A for VEGASWING 61 and 63 (GSTSW.GAE) not in conjunction with VEGASWING 61 with sensor length “L“ and VEGASWING 71A.



VEGAVIB 55

Vibrating level switch for solids

For use as overfill or dry run protection system

- easy setup without adjustment
- product-independent switching point
- wear and maintenance-free
- for solids from a density of 80 g/l

Approval
XX without

Version / Process temperature
A Standard/-50...100°C/316L

Process connection/Material
GD Thread G1½A PN10/PBTP

Electronics
C Contactless electronic switch 20...253VAC/DC
R Relay (DPDT) 20...72VDC/20...253VAC(5A)
T transistor (NPN/PNP) 10...55VDC
Z Two-wire 8/16 mA 10...36VDC

Housing/Protection
K Plastic/IP66/IP67

Cable entry/Plug connection
M M20x1.5/without
N ½NPT/without

VB55.						

VEGAVIB 61

Compact vibrating level switch for solids with vibrating rod

For use as overfill or dry run protection system

- optimum rod version avoids buildup and sticking material
- easy setup without adjustment
- SIL 2 qualified
- product-independent switching point
- easy cleaning
- wear and maintenance-free
- instrument from the plics® family

SPEED plics®

Approval

XX without

CX ATEX II 1G, 1/2G, 2G EEx ia IIC T6 [1)]

CK ATEX II 1G,1/2G,2G EEx ia IIC T6+ATEX II 1/2 D IP6X T [2)]

LX ATEX II 1/2G, 2G EEx d IIC T6 [3)]

GX ATEX II 1/2 D IP6X T [4)]

Version/Temperature range/Material

A Standard/-50...150°C/316L

B with adapter/-50...250°C/316L

C Detect.of solids in water/-50...150°C/316L

Process connection/Material

GC Thread G1A PN16/316L

NC Thread 1NPT PN16/316L

GD Thread G1½A PN16/316L Switching point as VIB51

ND Thread 1½NPT PN16/316L Switching point as VIB51

GG Thread G1½A PN16/316L

NG Thread 1½NPT PN16/316L

Electronics

C Contactless electronic switch 20...253VAC/DC

R Relay (DPDT) 20...72VDC/20...253VAC(5A)

T transistor (NPN/PNP) 10...55VDC

Z Two-wire 8/16 mA 10...36VDC

Housing/Protection

K Plastic/IP66/IP67

A Aluminium/IP66/IP67

V Stainless steel 316L/IP66/IP67

Cable entry/Plug connection

M M20x1.5/without

N ½NPT/without

VB61. | | | | | | |

[1)] only in conjunction with electronics "Z"

[2)] only in conjunction with electronics "Z" Not in conjunction with housing version "K"

[3)] Only in conjunction with housing "A"

[4)] Not in conjunction with housing version "K"

- Further process fittings and options on request

VEGAVIB 62

Vibrating level switch for solids with vibrating rod and suspension cable

For use as overfill or dry run protection system

- optimum rod version avoids buildup and sticking material
- easy setup without adjustment
- SIL 2 qualified
- product-independent switching point
- easy cleaning
- wear and maintenance-free
- instrument from the plics® family

Approval

XX without

CX ATEX II 1G, 1/2G, 2G EEx ia IIC T6 [1]

CK ATEX II 1G,1/2G,2G EEx ia IIC T6+ATEX II 1/2 D IP6X T [2]

GX ATEX II 1/2 D IP6X T [3]

Version/Temperature range/Material

T Standard/-20...80°C/316L

C Detect.of solids in water/-20...80°C/316L

Process connection/Material

GC Thread G1A PN16/316L

NC Thread 1NPT PN16/316L

GD Thread G1½A PN16/316L

ND Thread 1½NPT PN16/316L

Electronics

C Contactless electronic switch 20...253VAC/DC

R Relay (DPDT) 20...72VDC/20...253VAC(5A)

T transistor (NPN/PNP) 10...55VDC

Z Two-wire 8/16 mA 10...36VDC

Housing/Protection

K Plastic/IP66/IP67

A Aluminium/IP66/IP67

V Stainless steel 316L/IP66/IP67

Cable entry/Plug connection

M M20x1.5/without

N ½NPT/without

VB62. | | | | | | |

[1] only in conjunction with electronics "Z"

[2] only in conjunction with electronics "Z" Not in conjunction with housing version "K"

[3] Not in conjunction with housing version "K"

Length in mm (from seal surface)

per 100 mm of PUR

Length: ☐ mm (min. 450 mm; max. 20000 mm)

- Further process fittings and options on request

VEGAVIB 63

Vibrating level switch for solids with vibrating rod and tube extension

For use as overfill or empty signal protection system

- optimum rod version avoids buildup and sticking material
- easy setup without adjustment
- SIL 2 qualified
- product-independent switching point
- easy cleaning
- wear and maintenance-free
- instrument from the plics® family

SPEED plics®

Approval

XX without

CX ATEX II 1G, 1/2G, 2G EEx ia IIC T6 [1)]

CK ATEX II 1G,1/2G,2G EEx ia IIC T6+ATEX II 1/2 D IP6X T [2)]

LX ATEX II 1/2G, 2G EEx d IIC T6 [3)]

GX ATEX II 1/2 D IP6X T [4)]

Version/Temperature range/Material

A Standard/-50...150°C/316L

B with adapter/-50...250°C/316L

C Detect.of solids in water/-50...150°C/316L

Process connection/Material

GC Thread G1A PN16/316L

NC Thread 1NPT PN16/316L

GD Thread G1½A PN16/316L

ND Thread 1½NPT PN16/316L

Electronics

C Contactless electronic switch 20...253VAC/DC

R Relay (DPDT) 20...72VDC/20...253VAC(5A)

T transistor (NPN/PNP) 10...55VDC

Z Two-wire 8/16 mA 10...36VDC

Housing/Protection

K Plastic/IP66/IP67

A Aluminium/IP66/IP67

V Stainless steel 316L/IP66/IP67

Cable entry/Plug connection

M M20x1.5/without

N ½NPT/without

VB63. | | | | | | |

[1)] only in conjunction with electronics "Z"

[2)] only in conjunction with electronics "Z" Not in conjunction with housing version "K"

[3)] Only in conjunction with housing "A"

[4)] Not in conjunction with housing version "K"

Length in mm (from seal surface)

per 100 mm of 316L

Length: [ ] mm (min. 180 mm; max. 6000 mm)

- Further process fittings and options on request

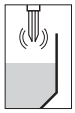
VEGAVIB 65

Compact vibrating level switch for solids

For use as overfill or empty signal protection system

- easy setup without adjustment
- SIL 2 qualified
- product-independent switching point
- wear and maintenance-free
- instrument from the plics® family

SPEED plics®



Approval

XX without

CX ATEX II 1G, 1/2G, 2G EEx ia IIC T6 [1)]

CK ATEX II 1G,1/2G,2G EEx ia IIC T6+ATEX II 1/2 D IP6X T [2)]

LX ATEX II 1/2G, 2G EEx d IIC T6 [3)]

GX ATEX II 1/2 D IP6X T [4)]

Version/Temperature range/Material

A Standard/-50...150°C/316L

B with adapter/-50...250°C/316L

C Detect.of solids in water/-50...150°C/316L

Process connection/Material

GD Thread G1½A PN16/316L

ND Thread 1½NPT PN16/316L

Electronics

C Contactless electronic switch 20...253VAC/DC

R Relay (DPDT) 20...72VDC/20...253VAC(5A)

T transistor (NPN/PNP) 10...55VDC

Z Two-wire 8/16 mA 10...36VDC

Housing/Protection

K Plastic/IP66/IP67

A Aluminium/IP66/IP67

V Stainless steel 316L/IP66/IP67

Cable entry/Plug connection

M M20x1.5/without

N ½NPT/without

VB65.						

[1)] only in conjunction with electronics "Z"

[2)] only in conjunction with electronics "Z" Not in conjunction with housing version "K"

[3)] Only in conjunction with housing "A"

[4)] Not in conjunction with housing version "K"

- Further process fittings and options on request

VEGAVIB 66

Vibrating level switch for solids with suspension cable

For use as overfill or empty signal protection system

- easy setup without adjustment
- SIL 2 qualified
- product-independent switching point
- wear and maintenance-free
- instrument from the plics® family

Approval

XX without

CX ATEX II 1G, 1/2G, 2G EEx ia IIC T6 [1]

CK ATEX II 1G,1/2G,2G EEx ia IIC T6+ATEX II 1/2 D IP6X T [2]

GX ATEX II 1/2 D IP6X T [3]

Version/Temperature range/Material

T Standard/-20...80°C/316L

C Detect.of solids in water/-20...80°C/316L

Process connection/Material

GD Thread G1½A PN16/316L

ND Thread 1½NPT PN16/316L

Electronics

C Contactless electronic switch 20...253VAC/DC

R Relay (DPDT) 20...72VDC/20...253VAC(5A)

T transistor (NPN/PNP) 10...55VDC

Z Two-wire 8/16 mA 10...36VDC

Housing/Protection

K Plastic/IP66/IP67

A Aluminium/IP66/IP67

V Stainless steel 316L/IP66/IP67

Cable entry/Plug connection

M M20x1.5/without

N ½NPT/without

VB66.						

[1] only in conjunction with electronics "Z"

[2] only in conjunction with electronics "Z" Not in conjunction with housing version "K"

[3] Not in conjunction with housing version "K"

Length in mm (from seal surface)

per 100 mm of PUR

Length: ☐ mm (min. 450 mm; max. 20000 mm)

- Further process fittings and options on request

VEGAVIB 67

Vibrating level switch for solids with tube extension

For use as overfill or empty signal protection system

- easy setup without adjustment
- SIL 2 qualified
- product-independent switching point
- wear and maintenance-free
- instrument from the plics® family

Approval

XX without

CX ATEX II 1G, 1/2G, 2G EEx ia IIC T6 [1)]

CK ATEX II 1G,1/2G,2G EEx ia IIC T6+ATEX II 1/2 D IP6X T [2)]

LX ATEX II 1/2G, 2G EEx d IIC T6 [3)]

GX ATEX II 1/2 D IP6X T [4)]

Version/Temperature range/Material

A Standard/-50...150°C/316L

B with adapter/-50...250°C/316L

C Detect.of solids in water/-50...150°C/316L

Process connection/Material

GD Thread G1½A PN16/316L

ND Thread 1½NPT PN16/316L

Electronics

C Contactless electronic switch 20...253VAC/DC

R Relay (DPDT) 20...72VDC/20...253VAC(5A)

T transistor (NPN/PNP) 10...55VDC

Z Two-wire 8/16 mA 10...36VDC

Housing/Protection

K Plastic/IP66/IP67

A Aluminium/IP66/IP67

V Stainless steel 316L/IP66/IP67

Cable entry/Plug connection

M M20x1.5/without

N ½NPT/without

VB67.						

[1)] only in conjunction with electronics "Z"

[2)] only in conjunction with electronics "Z" Not in conjunction with housing version "K"

[3)] Only in conjunction with housing "A"

[4)] Not in conjunction with housing version "K"

Length in mm (from seal surface)

per 100 mm of 316L

Length: ☐ mm (min. 240 mm; max. 6000 mm)

- Further process fittings and options on request

VEGATOR 536 Ex

Single signal conditioning instrument for level signalling in 19" European size

For processing of vibrating level switches

- with adjustable integration time
- fault monitoring and fault signal
- with test key for function test acc. to WHG
- European size acc. to DIN 41494

Sensor input	: 1 x (vibrating level switch)
Relay output	: 1 x spdt
Transistor output	: 1 x
Fault signal	: 1 x relay and 1 x transistor
Switching hysteresis	: fixed
Protection	: IP30
Operating voltage	: 20...53V AC, 20...72V DC

SPEED

Approval

A ATEX II (1) GD [EEx ia] IIC/IIB + WHG .....

M ATEX II (1) GD [EEx ia] IIC/IIB + ship approval .....

↓

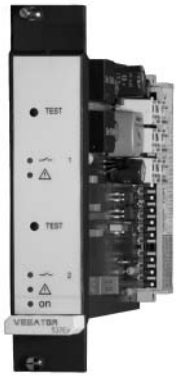
TOR536EX0. ☐

- Module for mounting into carriers and housings for single mounting, see chapter “Signal conditioning instruments and communication“

VEGATOR 537 Ex

Double signal conditioning instrument for level signalling in 19" European size

For processing of vibrating level switches



- with adjustable integration time
- fault monitoring and fault signal
- with test key for function test acc. to WHG
- European size acc. to DIN 41494

Sensor input	: 2 x (vibrating level switches)
Relay output	: 2 x spdt
Transistor output	: 2 x
Fault signal	: 1 x relay and 1 x transistor
Switching hysteresis	: fixed
Protection	: IP30
Operating voltage	: 20...53V AC, 20...72V DC

SPEED

Approval

A ATEX II (1) GD [EEx ia] IIC/IIB + WHG .....

M ATEX II (1) GD [EEx ia] IIC/IIB + ship approval .....

↓

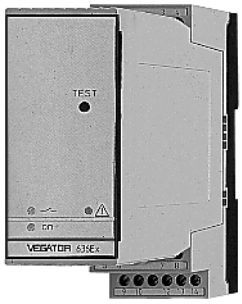
TOR537EX0. ☐

- Module for mounting into carriers and housings for single mounting, see chapter “Signal conditioning instruments and communication“

VEGATOR 636 Ex

Signal conditioning instrument for level signalling

For processing of vibrating level switches



- adjustable integration time
- fault monitoring and fault message via LED
- with test key for function test acc. to WHG
- mounting on carrier rail 35 x 7.5 acc. to EN 50022
- test for function test of the measuring chain acc. to WHG
- SIL 2 qualified

Sensor input	: 1 x (vibrating level switch)
Relay output	: 1 x spdt
Transistor output	: 1 x
Switching hysteresis	: fixed
Protection	: IP20
Operating voltage	: 20...250V AC, 20...72V DC

SPEED

Approval

A ATEX II (1) GD [EEx ia] IIC + WHG .....

M ATEX II (1) GD [EEx ia] IIC + shipp approval .....

Plug-in socket

K inclusive socket .....

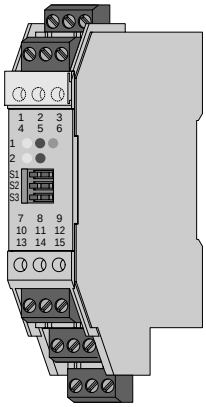
TOR636EX0.		

- Further level switches, see chapter “Signal conditioning instruments and communication“

Amplifier NAMUR

NAMUR signal conditioning instrument for level signalling

For processing and supply of NAMUR sensors such as e.g. VEGASWING 61/63



- control circuit [EEx ia] IIC
- reversible reaction direction
- detachable terminals
- NAMUR interface acc. to IEC 60947-5-6
- compact 20 mm housing for mounting on 35 mm standard rail EN 50022
- SIL 2 qualified

Amplifier version:

A6-SR2-EX1.W 1 channel, 230VAC, signal output: 1xspdt .....

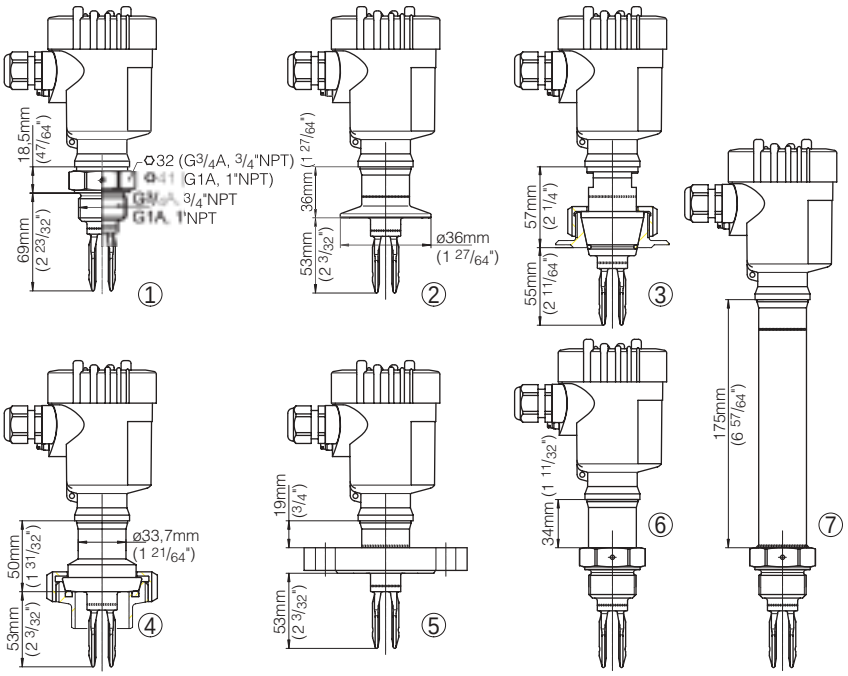
A6-SR2-EX2.W 2 channels, 230VAC, signal output: 2xspdt .....

D2-SR2-EX1.W 1 channel, 24VDC, signal output: 1xspdt .....

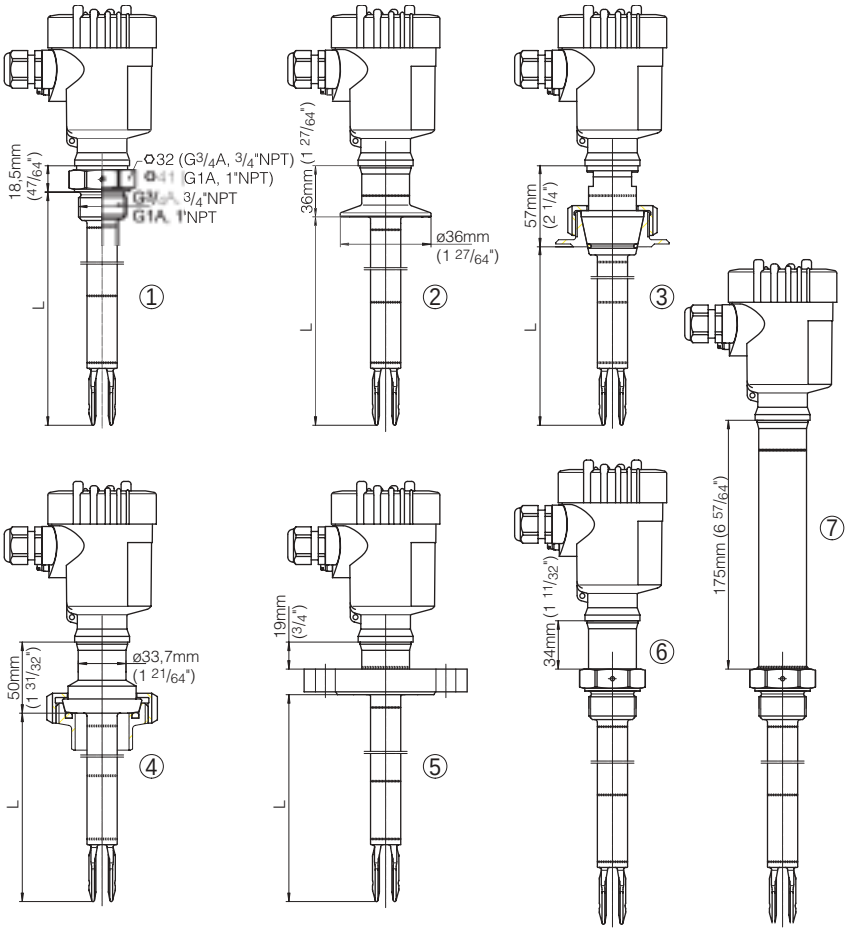
D2-SR2-EX2.W 2 channels, 24VDC, signal output: 1xspdt .....

KF	

VEGASWING 61

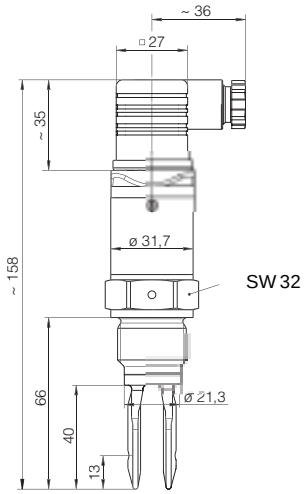


VEGASWING 63

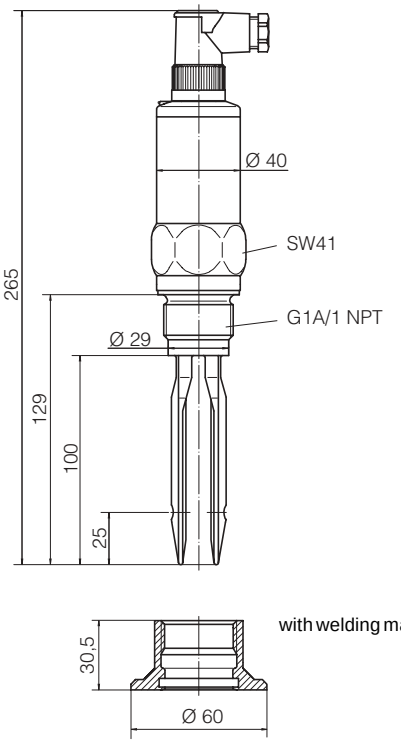


1 Thread
2 Tri-Clamp
3 Conus DN 25
4 Bolting DN 40
5 Flange
6 Gastight leadthrough
7 Temperature adapter

VEGASWING 51



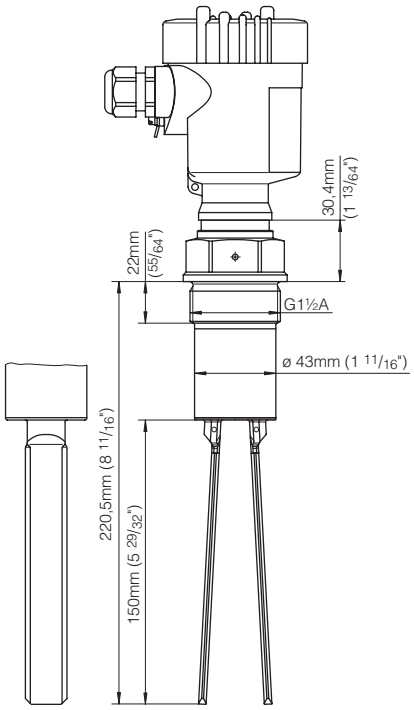
VEGASWING 71 A



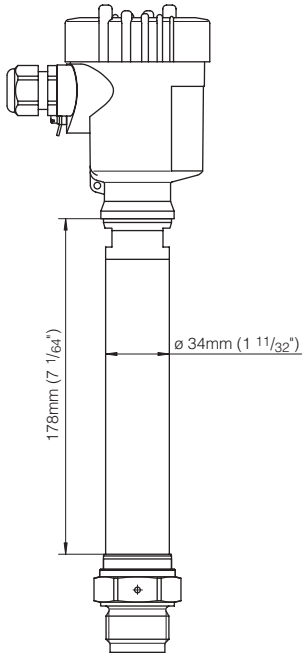
with welding marking

O-ring seal in the front

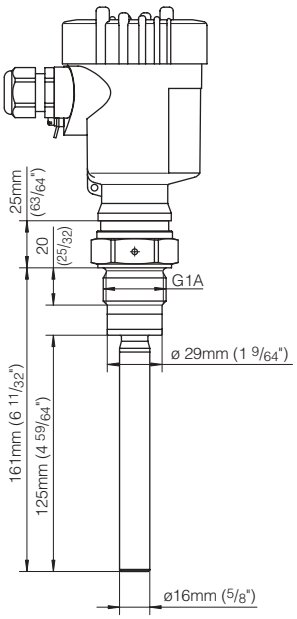
VEGAVIB 55

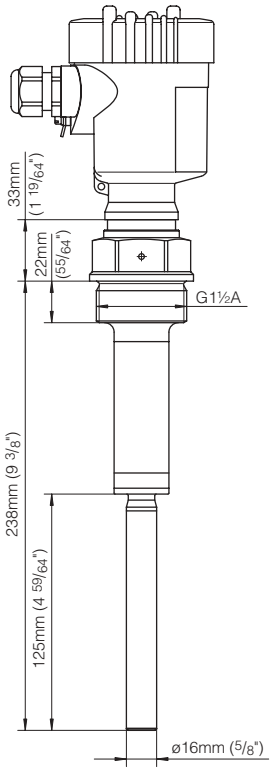


VEGAVIB 6x - Temperature adapter



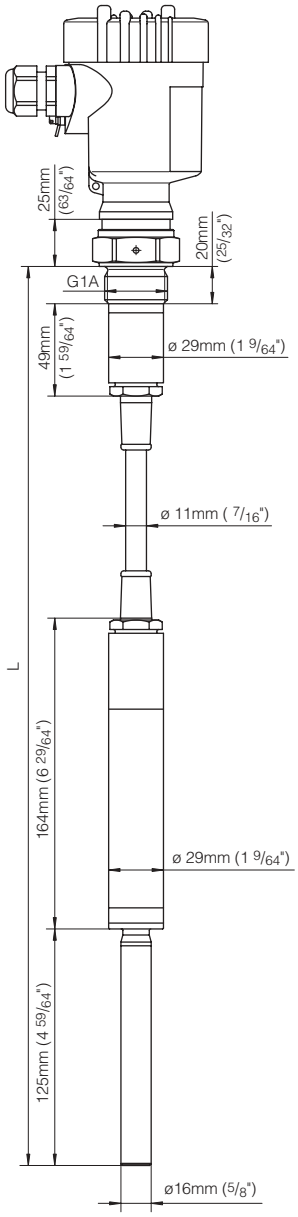
VEGAVIB 61

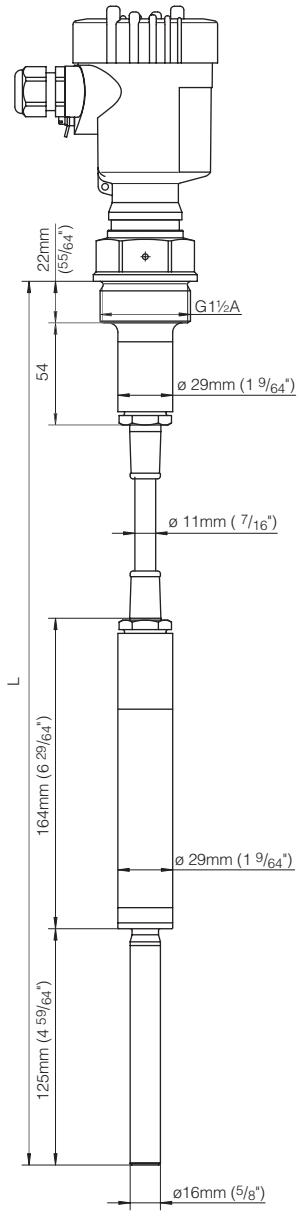




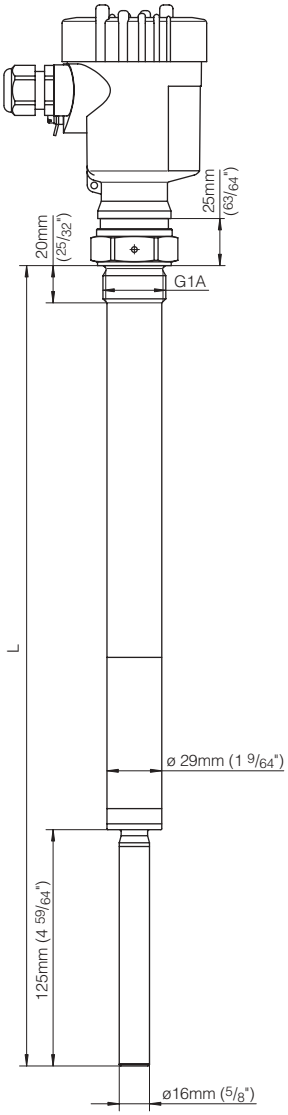
Switching point as VEGAVIB 51

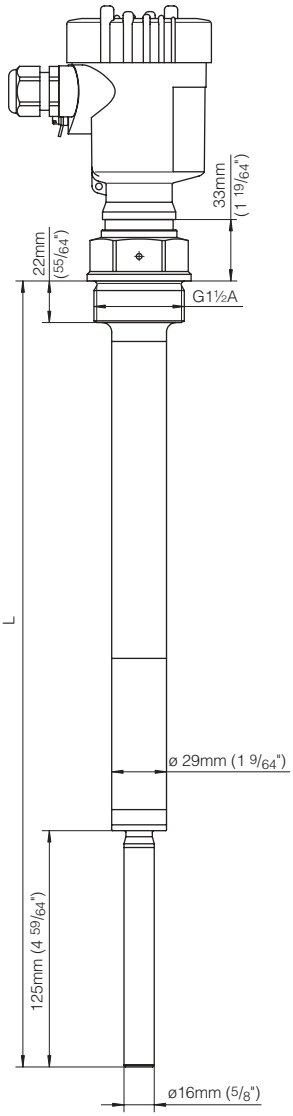
VEGAVIB 62


25mm (63/64")
20mm (25/32")
G1A
49mm (1 59/64")
ø 29mm (1 9/64")
ø 11mm (7/16")
L
164mm (6 29/64")
ø 29mm (1 9/64")
125mm (4 59/64")
ø16mm (5/8")

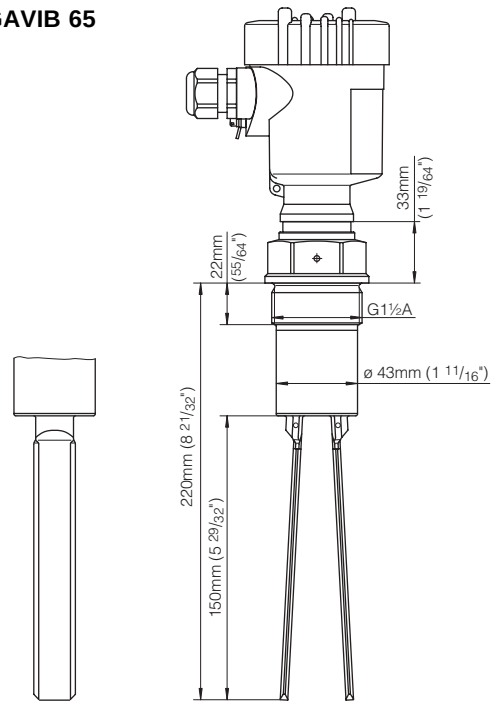

22mm (55/64")
G1½A
54
ø 29mm (1 9/64")
ø 11mm (7/16")
L
164mm (6 29/64")
ø 29mm (1 9/64")
125mm (4 59/64")
ø16mm (5/8")

VEGAVIB 63

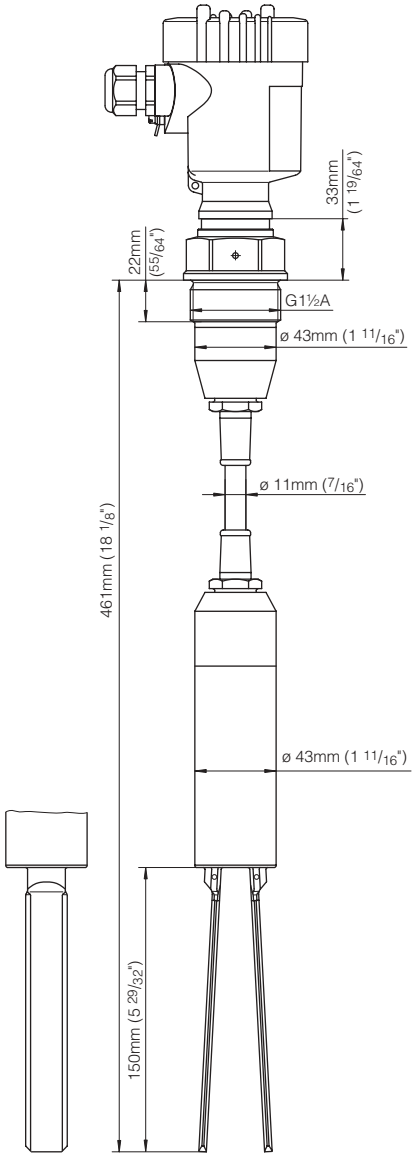




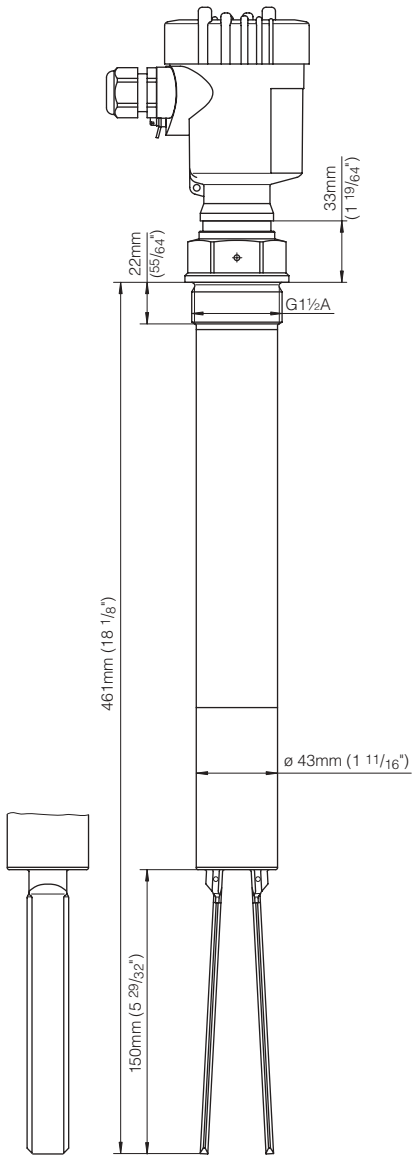
VEGAVIB 65



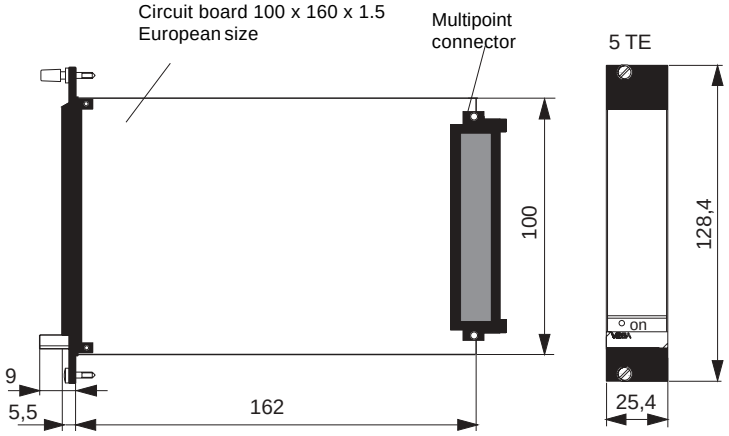
VEGAVIB 66



VEGAVIB 67

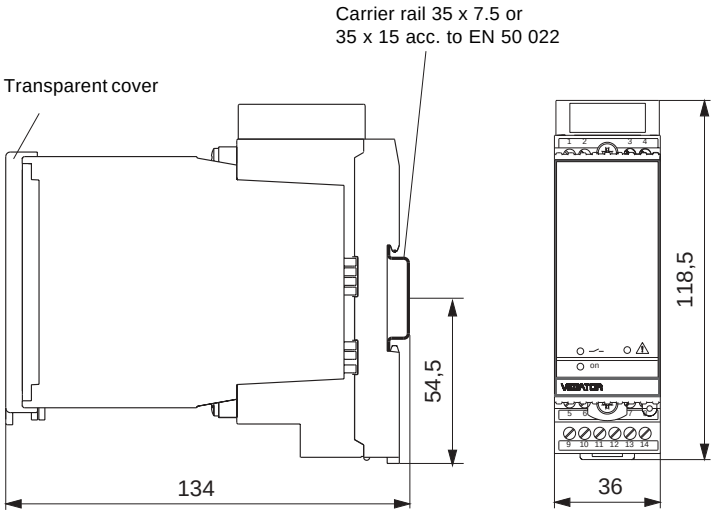


VEGATOR 536 Ex and VEGATOR 537 Ex



- Accessory see chapter “Signal conditioning instruments and communication“

VEGATOR 636 Ex



- Accessory see chapter “Signal conditioning instruments and communication“

NAMUR amplifier