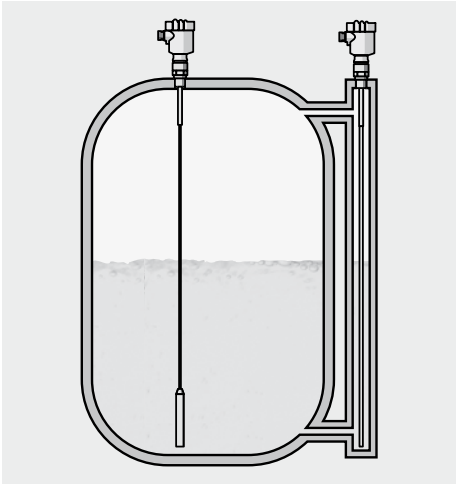
Guided Microwave

VEGAFLEX

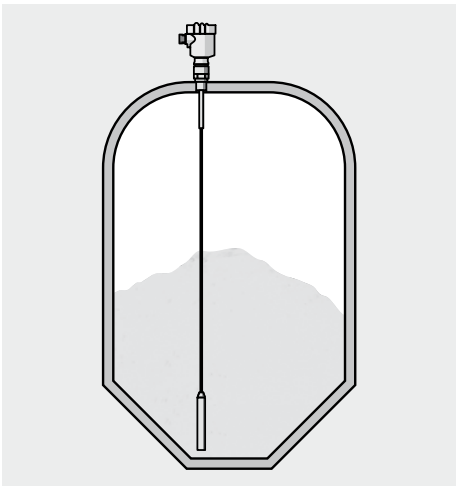
Universal sensors for bulk solids and liquids

Measuring principle
High frequency microwave pulses are coupled on a cable or rod and guided along the probe. The pulse is reflected by the product surface. The time from emission to reception of the signals is proportional to the level in the vessel. An adjustment with product is not necessary. All instruments are preset to the ordered probe length. The shortenable cable and rod versions can be adapted to the individual conditions on site.

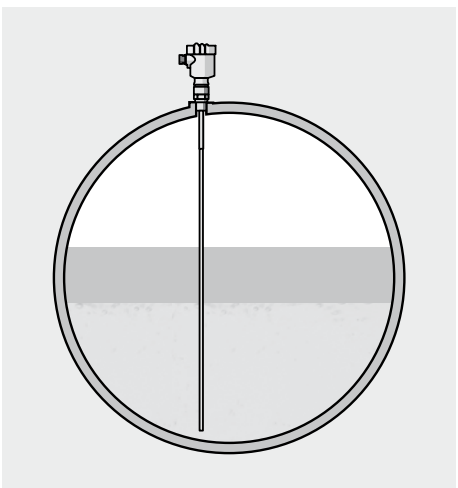
Applications in liquids
Density fluctuations, steam generation or strong pressure and temperature fluctuations do not influence the measuring result. Also buildup on the probe or the vessel wall do not influence the measurement. An ideal application is level measurement in a bypass tube where even products with dielectric values below 1.6 can be measured reliably. Also connection tubes – bypass tubes have no influence.



Applications in bulk solids
Typical problems in bulk solids such as e.g. dust and noise generation or condensation do not influence the reliability. Also the shape of the material cone or the product properties, e.g. the change from dry to wet sand do not influence the measuring result. Since the instruments are already preadjusted, setup is limited to connection of the sensor.



Interface measurement in liquids
The measuring principle was developed for detection of the interface. Typical applications are measurements of oil and solvents on water. The microwave pulse is reflected a second time on an interface with different dielectric value. This allows the detection of a second level. The advantage against displacers or floats is that the measuring principle is independent of density and does not use any moving parts. This ensures maintenance-free operation. Through the digital communication interfaces or connection of a VEGAMET 625, the output of both levels is possible.



Overview

VEGAFLEX 61

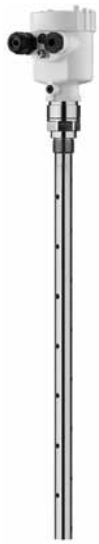
Application	Liquids, light-weight bulk solids
Measuring range	Cable: up to 32 m Rod: up to 4 m
Process fitting	from thread G¾ A, flange
Process temperature	-40 … +150 °C
Process pressure	-1 … +40 bar (-100 … +4000 kPa)
Accuracy	+/- 3 mm

VEGAFLEX 62

Application	Liquids, heavy-weight bulk solids
Measuring range	Cable: up to 60 m Rod: up to 6 m
Process fitting	from thread G1½ A, flange
Process temperature	-40 … +150 °C
Process pressure	-1 … +40 bar (-100 … +4000 kPa)
Accuracy	+/- 3 mm

VEGAFLEX 63

Application	Liquids
Measuring range	Cable: up to 32 m Rod: up to 4 m
Process fitting	Flansch from DN 50 Tri-Clamp from 1“
Process temperature	-40 … +150 °C
Process pressure	-0.5 … +16 bar (-50 … +1600 kPa)
Accuracy	+/- 3 mm

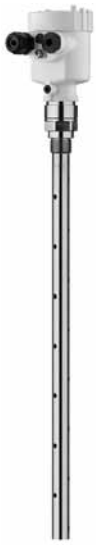


VEGAFLEX 65

Application	Liquids
Measuring range	up to 6 m
Process fitting	from thread G¾ A, flange
Process temperature	-40 … +150 °C
Process pressure	-1 … +40 bar (-100 … +4000 kPa)
Accuracy	+/- 2 mm

VEGAFLEX 66

Application	Liquids, light-weight bulk solids
Measuring range	Cable: up to 32 m Rod, coax: up to 6 m
Process fitting	from thread G¾ A, flange
Process temperature	-200 … +400 °C
Process pressure	-1 … +400 bar (-100 … +40000 kPa)
Accuracy	from +/- 3 mm



VEGAFLEX 67

Application	Interface measurement
Measuring range	Cable: up to 32 m Rod, coax: up to 6 m
Process fitting	from thread G¾ A, flange
Process temperature	-200 … +400 °C
Process pressure	-1 … +400 bar (-100 … +40000 kPa)
Accuracy	+/- 10 mm

VEGAFLEX 61

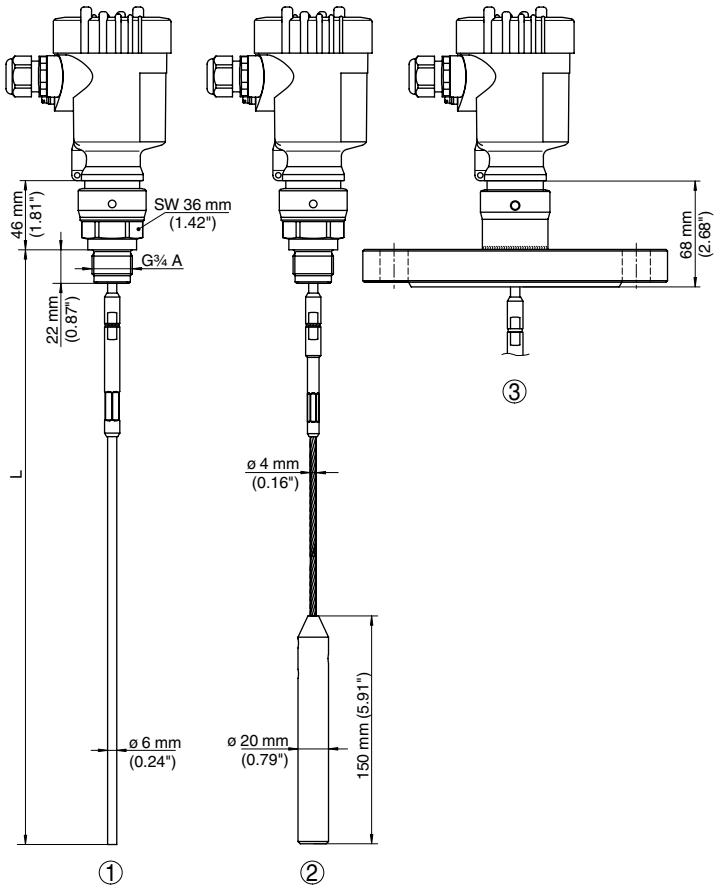
SPEED

TDR sensor for continuous level measurement

Application area
VEGAFLEX 61 is a level sensor for continuous level measurement. It is suitable for liquids and light bulk solids in practically all areas of industry. Typical applications are measurements of liquids in storage vessels or bypass tubes. The sensor can be also used in smaller bulk solid silos. All instruments are preset to the ordered probe length.

Advantages
Simple setup without adjustment
Unaffected by product properties
Insensitive against dust, vapour, buildup and condensation
Wear and maintenance-free
High measuring accuracy
SIL qualified

Function
High frequency microwave pulses are coupled onto a cable or rod and guided along the probe. The pulses are reflected by the product surface. The time from emission to reception of the signals is proportional to the level in the vessel.



1 Rod version
2 Cable version
3 Flange version

You will find further process fittings and options under www.vega.com/configurator
You will find further drawings and tables under www.vega.com/downloads
You will find mounting accessory and welded sockets in chapter "Accessory"

Approval

- **XX** without
- **XM** Ship approval
- **CX** ATEX II 1G, 1/2G, 2G Ex ia IIC T6
- **CA** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG
- **CM** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + Ship approval
- **CI** IEC Ex ia IIC T6
- **DX** ATEX II 1/2G, 2G Ex d ia IIC T6
- **DI** IEC Ex d ia IIC T6
- **GX** ATEX II 1/2 D, 2D IP6X T

Version / Material

- **A** Exchangeable cable ø4 mm with gravity weight / 316
- **C** Exchangeable rod ø6 mm / 316L

Process fitting / Material

- **GB** Thread G¾A (DIN 3852-A) PN40 / 316L
- **NB** Thread ¾NPT (ASME B1.20.1) PN40 / 316L
- **GC** Thread G1A (DIN 3852-A) PN40 / 316L
- **NC** Thread 1NPT (ASME B1.20.1) PN40 / 316L
- **GD** Thread G1½A (DIN 3852-A) PN40 / 316L
- **ND** Thread 1½NPT (ASME B1.20.1) PN40 / 316L
- **FA** Flange DN25PN40 Form C, DIN2501 / 316L
- **FB** Flange DN40PN40 Form C, DIN2501 / 316L
- **FC** Flange DN50PN40 Form C, DIN2501 / 316L
- **FD** Flange DN80PN40 Form C, DIN2501 / 316L
- **AA** Flange 1" 150lb RF, ANSI B16.5 / 316L
- **AE** Flange 2" 150lb RF, ANSI B16.5 / 316L
- **AI** Flange 3" 150lb RF, ANSI B16.5 / 316L

Seal / Process temperature

- **1** FKM (Viton) / -40...150°C
- **2** FFKM (Kalrez 6375) / -20 ... 150 °C
- **3** EPDM / -40...150°C

Electronics

- **H** Two-wire 4...20mA/HART®
- **V** Four-wire 4...20mA/HART®
- **P** Profibus PA
- **F** Foundation Fieldbus

Housing / Protection

- **K** Plastic / IP66/IP67
- **A** Aluminium / IP66/IP68 (0.2bar)
- **D** Aluminium double chamber / IP66/IP68 (0.2bar)
- **8** StSt (electropolished) 316L / IP66/IP68 (0.2bar)
- **W** StSt double chamber / IP66/IP68 (0.2bar)
- **R** Plastic double chamber / IP66/IP67

Cable entry / Cable gland / Plug connection

- **M** M20x1.5 / with / without
- **N** ½NPT / without / without

Indicating/adjustment module (PLICSCOM)

- **X** Without
- **A** mounted

Additional equipment

- **X** without

FX61.									

Length (from seal surface)

Cable ø4 mm/316 (1000-32000 mm) per 100 mm
Rod ø6 mm/316L (300-4000 mm) per 100 mm

VEGAFLEX 62

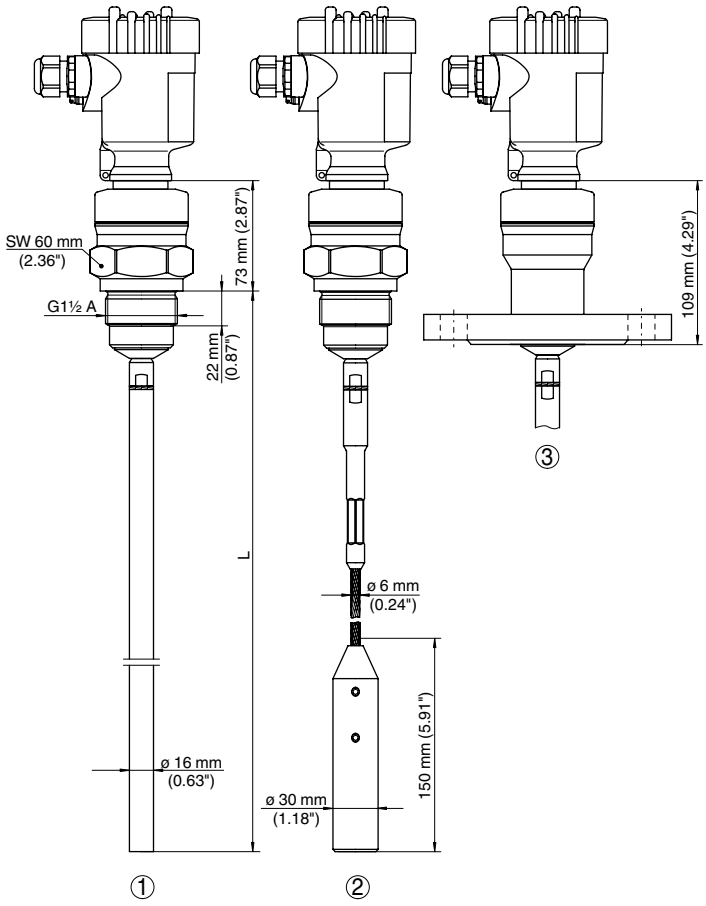
SPEED

TDR sensor for continuous level measurement

Application area
VEGAFLEX 62 is a level sensor for continuous level measurement. It is suitable for liquids and heavy bulk solids in practically all areas of industry. Typical applications are measurements of bulk solids in average-size to high silos. The sensor can be also used in liquids in storage vessels and bypass tubes.

Advantages
Simple setup without adjustment
Unaffected by product properties
Insensitive against dust, vapour, buildup and condensation
Wear and maintenance-free
High measuring accuracy
SIL qualified

Function
High frequency microwave pulses are coupled onto a cable or rod and guided along the probe. The pulses are reflected by the product surface. The time from emission to reception of the signals is proportional to the level in the vessel.



1 Rod version
2 Cable version
3 Flange version

You will find further process fittings and options under www.vega.com/configurator
You will find further drawings and tables under www.vega.com/downloads
You will find mounting accessory and welded sockets in chapter "Accessory"

Approval

- **XX** without
- **XM** Ship approval
- **CX** ATEX II 1G, 1/2G, 2G Ex ia IIC T6
- **CA** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG
- **CM** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + Ship approval
- **CI** IEC Ex ia IIC T6
- **DX** ATEX II 1/2G, 2G Ex d ia IIC T6
- **DI** IEC Ex d ia IIC T6
- **GX** ATEX II 1/2 D, 2D IP6X T

Version / Material

- **A** Exchangeable cable ø 6mm w. gravity weight / 316
- **C** Exchangeable rod ø 16mm / 316L

Process fitting / Material

- **GD** Thread G1½A (DIN 3852-A) PN40 / 316L
- **ND** Thread 1½NPT (ASME B1.20.1) PN40 / 316L
- **FC** Flange DN50PN40 Form C,DIN2501 / 316L
- **FD** Flange DN80PN40 Form C,DIN2501 / 316L
- **FE** Flange DN100PN16 Form C,DIN2501 / 316L
- **AE** Flange 2"150lb RF,ANSI B16.5 / 316L
- **AF** Flange 2"300lb RF,ANSI B16.5 / 316L

Seal / Process temperature

- **1** FKM (Viton) / -40...150°C
- **2** FFKM (Kalrez 6375) / -20 ... 150 °C
- **3** EPDM / -40...150°C

Electronics

- **H** Two-wire 4...20mA/HART®
- **V** Four-wire 4...20mA/HART®
- **P** Profibus PA
- **F** Foundation Fieldbus

Housing / Protection

- **K** Plastic / IP66/IP67
- **A** Aluminium / IP66/IP68 (0.2bar)
- **D** Aluminium double chamber / IP66/IP68 (0.2bar)
- **8** StSt (electropolished) 316L / IP66/IP68 (0.2bar)
- **W** StSt double chamber / IP66/IP68 (0.2bar)
- **R** Plastic double chamber / IP66/IP67

Cable entry / Cable gland / Plug connection

- **M** M20x1.5 / with / without
- **N** ½NPT / without / without

Indicating/adjustment module (PLICSCOM)

- **X** Without
- **A** mounted

Additional equipment

- **X** without

FX62.									

Length (from seal surface)

Cable ø6 mm/316 (1000-60000 mm) per 100 mm
Rod ø16 mm/316L (300-6000 mm) per 100 mm

VEGAFLEX 63

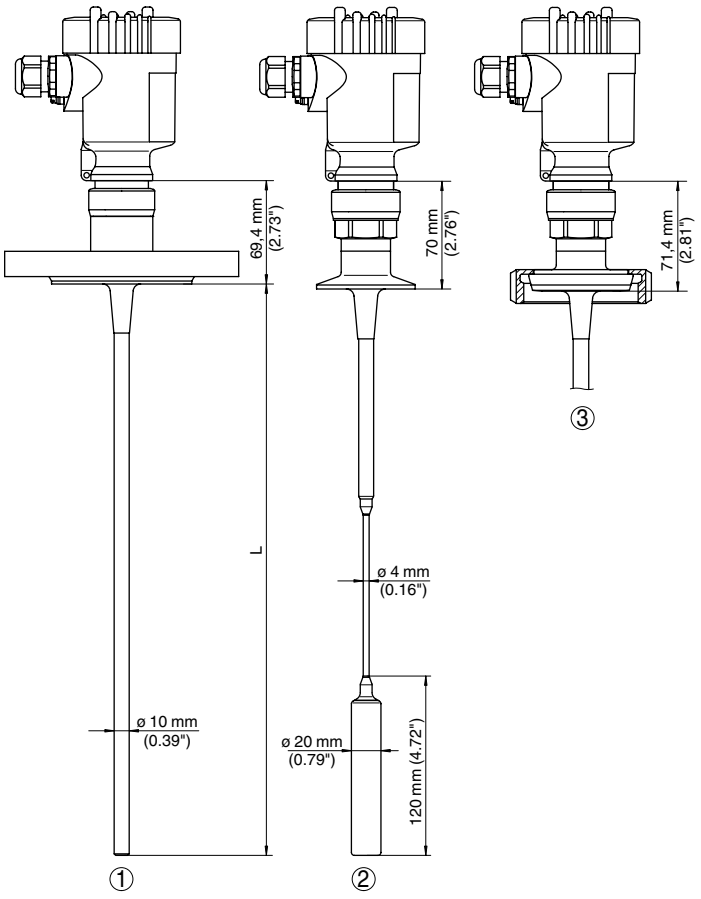
SPEED

TDR sensor for continuous level measurement

Application area
VEGAFLEX 63 is a level sensor for continuous level measurement. It is suitable for liquids in practically all areas of industry. Typical applications are measurements of aggressive and corrosive liquids as well as applications in the food processing/pharmaceutical industry. All instruments are preset to the ordered probe length.

Advantages
Simple setup without adjustment
Unaffected by product properties
Insensitive against dust, vapour, buildup and condensation
Good cleanability and maximum chemical resistance
High measuring accuracy
SIL qualified

Function
High frequency microwave pulses are coupled onto a cable or rod and guided along the probe. The pulses are reflected by the product surface. The time from emission to reception of the signals is proportional to the level in the vessel.



1 Rod version with flange connection
2 Cable version with Tri-Clamp
3 Bolting

You will find further process fittings and options under www.vega.com/configurator
You will find further drawings and tables under www.vega.com/downloads
You will find mounting accessory and welded sockets in chapter "Accessory"

Approval

- **XX** without
- **CX** ATEX II 1G, 1/2G, 2G Ex ia IIC T6
- **CA** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG
- **CI** IEC Ex ia IIC T6
- **DX** ATEX II 1/2G, 2G Ex d ia IIC T6
- **DI** IEC Ex d ia IIC T6

Version / Temperature

- **B** Cable ø4mm PFA insul. w. gravity weight / -40...150°C
- **E** Rod ø10 mm PFA insulated / -40...150°C

Process fitting / Material

- **FC** Flange DN50PN40, DIN2501 / PTFE-plated
- **FD** Flange DN80PN40, DIN2501 / PTFE-plated
- **FE** Flange DN100PN16, DIN2501 / PTFE-plated
- **KC** Flange DN50PN40 EN1092-1 / PTFE-plated
- **KD** Flange DN80PN40 EN1092-1 / PTFE-plated
- **KE** Flange DN100PN16 EN1092-1 / PTFE-plated
- **AE** Flange 2" 150lb RF, ANSI B16.5 / PTFE-plated
- **AI** Flange 3" 150lb RF, ANSI B16.5 / PTFE-plated
- **AK** Flange 4" 150lb RF, ANSI B16.5 / PTFE-plated
- **CA** Tri-Clamp 2" PN16 / PTFE-TFM 1600
- **CE** Tri-Clamp 3" PN10 / PTFE-TFM 1600
- **CC** Tri-Clamp 4" PN6 / PTFE-TFM 1600
- **RA** Bolting DN40PN40 DIN11851 / PTFE-TFM 1600
- **RB** Bolting DN50PN25 DIN11851 / PTFE-TFM 1600

Electronics

- **H** Two-wire 4...20mA/HART®
- **V** Four-wire 4...20mA/HART®
- **P** Profibus PA
- **F** Foundation Fieldbus

Housing / Protection

- **K** Plastic / IP66/IP67
- **A** Aluminium / IP66/IP68 (0.2bar)
- **D** Aluminium double chamber / IP66/IP68 (0.2bar)
- **8** StSt (electropolished) 316L / IP66/IP68 (0.2bar)
- **W** StSt double chamber / IP66/IP68 (0.2bar)
- **R** Plastic double chamber / IP66/IP67

Cable entry / Cable gland / Plug connection

- **M** M20x1.5 / with / without
- **N** ½NPT / without / without

Indicating/adjustment module (PLICSCOM)

- **X** Without
- **A** mounted

Additional equipment

- **X** without

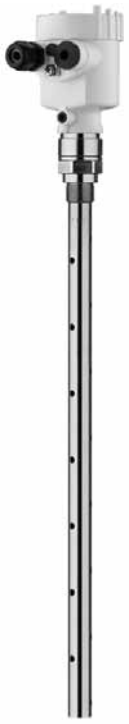
FX63.								

Length (from seal surface)

Cable ø4 mm/PFA insulated (1000-32000 mm) per 100 mm
Rod ø10 mm/PFA insulated (300-4000 mm) per 100 mm

VEGAFLEX 65

SPEED

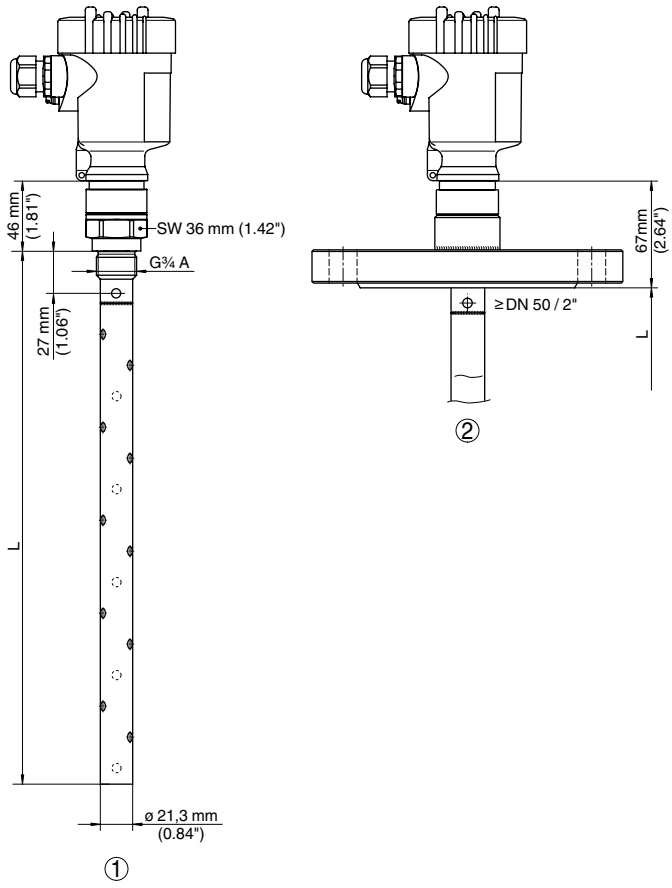


TDR sensor for continuous level measurement

Application area
VEGAFLEX 65 is a coaxial level sensor for continuous level measurement of low viscosity liquids. Typical applications are measurements of solvents and fuels. All instruments are preset to the ordered probe length.

Advantages
Simple setup without adjustment
Unaffected by product properties
Insensitive against vapour and condensation
Independent of socket lengths and lateral installations
High measuring accuracy
SIL qualified

Function
High frequency microwave pulses are coupled onto the internal rod of the coax system and guided along the probe. The pulses are reflected by the product surface. The time from emission to reception of the signal is proportional to the level in the vessel.



1 Threaded version
2 Flange version

You will find further process fittings and options under www.vega.com/configurator
You will find further drawings and tables under www.vega.com/downloads
You will find mounting accessory and welded sockets in chapter "Accessory"

Approval

- **XX** without
- **XM** Ship approval
- **CX** ATEX II 1G, 1/2G, 2G Ex ia IIC T6
- **CA** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG
- **CM** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + Ship approval
- **CI** IEC Ex ia IIC T6
- **DX** ATEX II 1/2G, 2G Ex d ia IIC T6
- **DI** IEC Ex d ia IIC T6

Version / Material

- **A** Coax probe (with multiple boring) / 316L

Process fitting / Material

- **GB** Thread G¾A (DIN 3852-A) PN40 / 316L
- **NB** Thread ¾NPT (ASME B1.20.1) PN40 / 316L
- **GC** Thread G1A (DIN 3852-A) PN40 / 316L
- **NC** Thread 1NPT (ASME B1.20.1) PN40 / 316L
- **GD** Thread G1½A (DIN 3852-A) PN40 / 316L
- **ND** Thread 1½NPT (ASME B1.20.1) PN40 / 316L
- **FA** Flange DN25PN40 Form C, DIN2501 / 316L
- **FB** Flange DN40PN40 Form C, DIN2501 / 316L
- **FC** Flange DN50PN40 Form C, DIN2501 / 316L
- **FD** Flange DN80PN40 Form C, DIN2501/ 316L
- **AA** Flange 1" 150lb RF, ANSI B16.5 / 316L
- **AE** Flange 2" 150lb RF, ANSI B16.5 / 316L
- **AI** Flange 3" 150lb RF, ANSI B16.5 / 316L

Seal / Process temperature

- **1** FKM (Viton) / -40...150°C
- **2** FFKM (Kalrez 6375) / -20 ... 150 °C
- **3** EPDM / -40...150°C

Electronics

- **H** Two-wire 4...20mA/HART®
- **V** Four wire 4...20mA/HART®
- **P** Profibus PA
- **F** Foundation Fieldbus

Housing / Protection

- **K** Plastic / IP66/IP67
- **A** Aluminium / IP66/IP68 (0.2bar)
- **D** Aluminium double chamber / IP66/IP68 (0.2bar)
- **8** StSt (electropolished) 316L / IP66/IP68 (0.2bar)
- **W** StSt double chamber / IP66/IP68 (0.2bar)
- **R** Plastic double chamber / IP66/IP67

Cable entry / Cable gland / Plug connection

- **M** M20x1.5 / with / without
- **N** ½NPT / without / without

Indicating/adjustment module (PLICSCOM)

- **X** Without
- **A** mounted

Additional equipment

- **X** without

FX65.									

Length (from seal surface)

Coax/316L (300-6000 mm) per 100 mm

VEGAFLEX 66

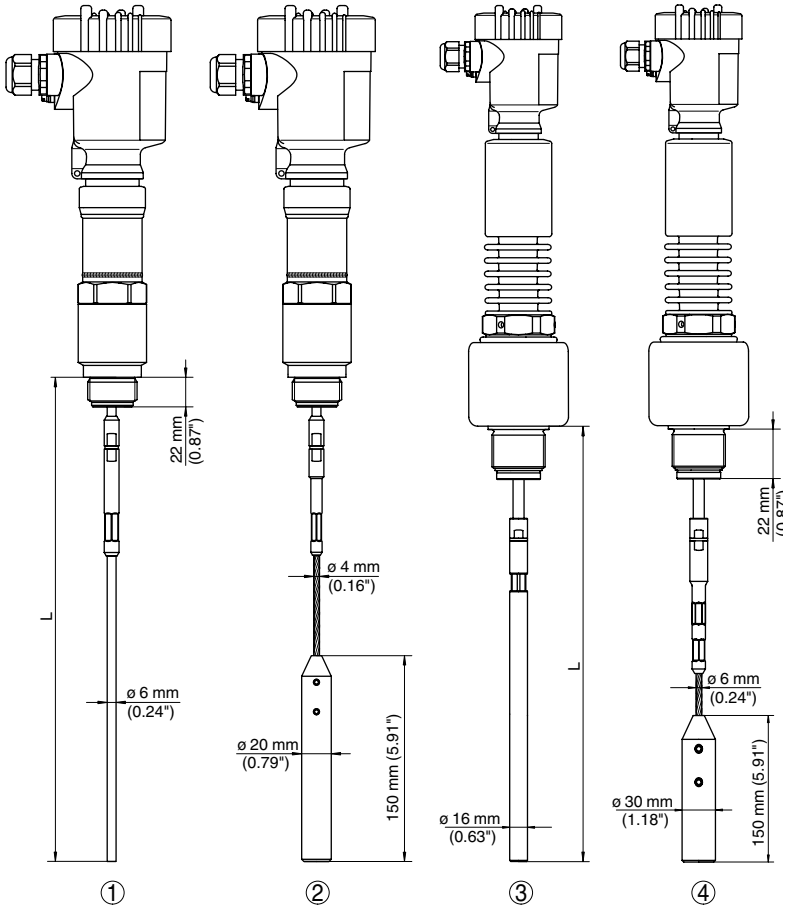
SPEED

TDR sensor for continuous level measurement

Application area
VEGAFLEX 66 is a level sensor in coax, rod or cable version for continuous level measurement in applications with high pressures and temperatures. It is designed for industrial use in all areas of process technology. All instruments are preset to the ordered probe length.

Advantages
Simple setup without adjustment
Unaffected by product properties
Insensitive against dust, vapour, buildup and condensation
Wear and maintenance-free
High measuring accuracy
SIL qualified

Function
High frequency microwave pulses are coupled onto a cable or rod and guided along the probe. The pulses are reflected by the product surface. The time from emission to reception of the signals is proportional to the level in the vessel.



1 Version – -20 … +250 °C – rod
2 Version – -20 … +250 °C – cable
3 Version – -200 … +400 °C – rod
4 Version – -200 … +400 °C – cable

You will find further process fittings and options under www.vega.com/configurator
You will find further drawings and tables under www.vega.com/downloads
You will find mounting accessory and welded sockets in chapter "Accessory"

Approval

- **XX** without
- **CX** ATEX II 1G, 1/2G, 2G Ex ia IIC T6
- **CA** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG
- **CI** IEC Ex ia IIC T6
- **DX** ATEX II 1/2G, 2G Ex d ia IIC T6
- **DA** ATEX II 1/2G, 2G Ex d ia IIC T6 + WHG
- **DI** IEC Ex d ia IIC T6

Version / Material / Process temperature

- **S** Exchangeab. cable ø4mm,gravity weight/316/-20..250°C
- **C** Exchangeable rod ø6mm / 316L / -20...250°C
- **A** Coaxial probe (w. multiple boring) / 316L / -20...250°C
- **U** Exchangeab. cable ø6mm,gravity weight/316 /-200..400°C
- **I** Exchangeable rod ø16mm / 316L / -200...400°C
- **M** Coaxial probe (w.mult.vent. hole) / 316L/-200...400°C

Process fitting / Material

- **GB** Thread G¾A (DIN 3852-A) PN100 / 316L
- **NB** Thread ¾NPT (ASME B1.20.1) PN100 / 316L
- **GC** Thread G1A (DIN 3852-A) PN100 / 316L
- **NC** Thread 1NPT (ASME B1.20.1) PN100 / 316L
- **GD** Thread G1½A (DIN 3852-A) PN100 / 316L
- **ND** Thread 1½NPT (ASME B1.20.1) PN100 / 316L
- **GS** Thread G1½A (DIN 3852-A) PN400 / 316L
- **NS** Thread 1½NPT (ASME B1.20.1) PN400 / 316L
- **FB** Flange DN40PN40 Form C, DIN2501 / 316L
- **FC** Flange DN50PN40 Form C, DIN2501 / 316L
- **FD** Flange DN80PN40 Form C, DIN2501 / 316L
- **AE** Flange 2" 150lb RF, ANSI B16.5 / 316L
- **AI** Flange 3" 150lb RF, ANSI B16.5 / 316L

Seal

- **2** FFKM (Kalrez 6375)
- **H** Graphite

Electronics

- **H** Two-wire 4...20mA/HART®
- **V** Four wire 4...20mA/HART®
- **P** Profibus PA
- **F** Foundation Fieldbus

Housing / Protection

- **K** Plastic / IP66/IP67
- **A** Aluminium / IP66/IP68 (0.2bar)
- **D** Aluminium double chamber / IP66/IP68 (0.2bar)
- **8** StSt (electropolished) 316L / IP66/IP68 (0.2bar)
- **W** StSt double chamber / IP66/IP68 (0.2bar)
- **R** Plastic double chamber / IP66/IP67

Cable entry / Cable gland / Plug connection

- **M** M20x1.5 / with / without
- **N** ½NPT / without / without

Indicating/adjustment module (PLICSCOM)

- **X** Without
- **A** mounted

Additional equipment

- **X** without

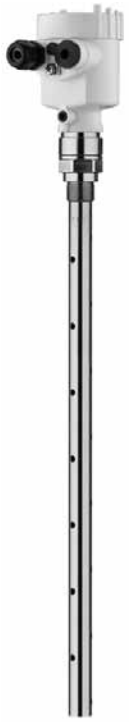
FX66.									

Length (from seal surface)

Cable ø4 mm/316 (1000-32000 mm) per 100 mm
Cable ø6 mm/316 (1000-32000 mm) per 100 mm
Rod ø6 mm/316L (300-4000 mm) per 100 mm
Rod ø16 mm/316L (300-4000 mm) per 100 mm
Coax -20...250°C/316L (300-6000 mm) per 100 mm
Coax -200...400°C/316L (300-6000 mm) per 100 mm

VEGAFLEX 67

SPEED

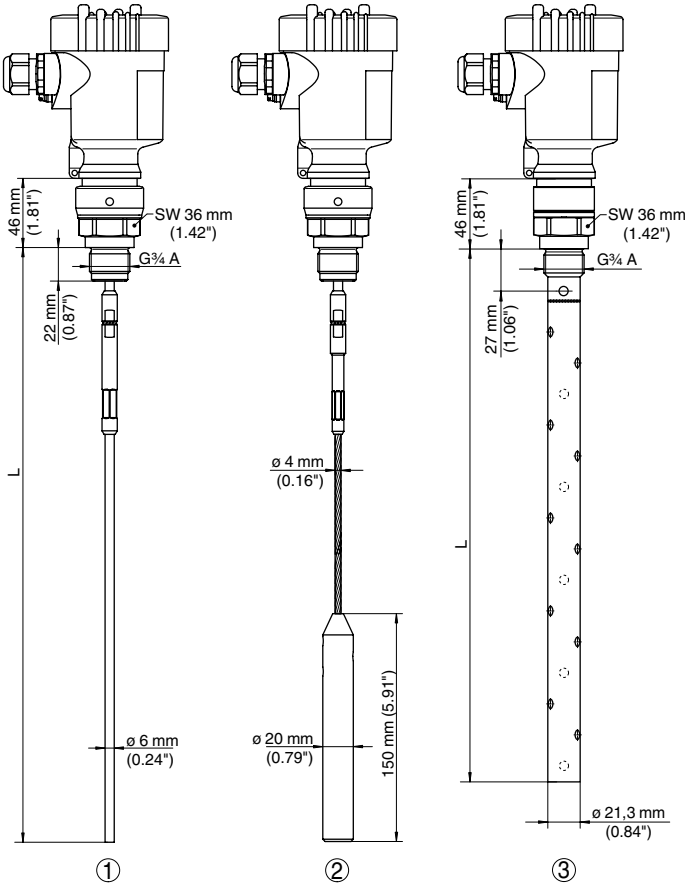


TDR sensor for continuous interface measurement

Application area
The VEGAFLEX 67 is a level sensor with rod or cable probe for continuous interface measurement in precipitators and separators.

Advantages
Simple setup without adjustment
Unaffected by product density
Insensitive against vapour and condensation
Wear and maintenance-free

Function
High frequency microwave pulses are coupled onto a cable or rod and guided along the probe. When reaching the product surface, a part of the microwave pulses is reflected. The other part passes through the upper product and is reflected a second time by the interface. The running times to the two product layers are evaluated by the instrument.



1 Rod version
2 Cable version
3 Coax version

You will find further process fittings and options under www.vega.com/configurator
You will find further drawings and tables under www.vega.com/downloads
You will find mounting accessory and welded sockets in chapter "Accessory"

Approval

- **XX** without
- **XM** Ship approval
- **CX** ATEX II 1G, 1/2G, 2G Ex ia IIC T6
- **CM** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + Ship approval
- **CI** IEC Ex ia IIC T6
- **DX** ATEX II 1/2G, 2G Ex d ia IIC T6
- **DM** ATEX II 1/2G, 2G Ex d ia IIC T6 + Ship approval
- **DI** IEC Ex d ia IIC T6

Version / Material

- **S** Exchangeable cable ø4 mm w. gravity weight / 316
- **C** Exchangeable rod ø6 mm / 316L
- **A** Coax probe (with multiple boring) / 316L

Process fitting / Material

- **GB** Thread G¾A (DIN 3852-A) PN40 / 316L
- **NB** Thread ¾NPT (ASME B1.20.1) PN40 / 316L
- **GC** Thread G1A (DIN 3852-A) PN40 / 316L
- **NC** Thread 1NPT (ASME B1.20.1 PN40 / 316L
- **G2** Thread G1A (DIN 3852-A) PN100 / 316L
- **N2** Thread 1NPT (ASME B1.20.1) PN100 / 316L
- **GD** Thread G1½A (DIN 3852-A) PN40 / 316L
- **ND** Thread 1½NPT (ASME B1.20.1) PN40 / 316L
- **FA** Flange DN25PN40 Form C, DIN2501 / 316L
- **FB** Flange DN40PN40 Form C, DIN2501 / 316L
- **FC** Flange DN50PN40 Form C, DIN2501 / 316L
- **1C** Flange DN50PN40, DIN2501 / PTFE-plated
- **FD** Flange DN80PN40 Form C, DIN2501 / 316L
- **AA** Flange 1" 150lb RF, ANSI B16.5 / 316L
- **AE** Flange 2" 150lb RF, ANSI B16.5 / 316L
- **3E** Flange 2" 150lb RF, ANSI B16.5 / PTFE-plated
- **AI** Flange 3" 150lb RF, ANSI B16.5 / 316L

Seal / Process temperature

- **1** FKM (Viton) / -40...150°C
- **2** FFKM (Kalrez 6375) / -20 ... 150 °C
- **3** EPDM / -40...150°C
- **A** FFKM (Kalrez 6375) / -20 ... 250 °C
- **G** Graphite / -200 ... 400 °C

Electronics

- **H** Two-wire 4...20mA/HART®
- **V** Four wire 4...20mA/HART®
- **P** Profibus PA
- **F** Foundation Fieldbus

Housing / Protection

- **K** Plastic / IP66/IP67
- **A** Aluminium / IP66/IP68 (0.2bar)
- **D** Aluminium double chamber / IP66/IP68 (0.2bar)
- **8** StSt (electropolished) 316L / IP66/IP68 (0.2bar)
- **W** StSt double chamber / IP66/IP68 (0.2bar)
- **R** Plastic double chamber / IP66/IP67

Cable entry / Cable gland / Plug connection

- **M** M20x1.5 / with / without
- **N** ½NPT / without / without

Indicating/adjustment module (PLICSCOM)

- **X** Without
- **A** mounted

Additional equipment

- **X** without

FX67.									

Length (from seal surface)

Rod ø6 mm/316L (500-4000 mm) per 100 mm
Cable ø4 mm/316 (1000-32000 mm) per 100 mm
Coax/316L (300-6000 mm) per 100 mm