

## Level measurement

Guided wave radar **MOLOS**  
wave 1

Yo-Yo sensing systems **MOLOS**  
bob 2

Visualization **MOLOS**  
visu 3

Rotation **MOLOS**  
roto 4

Membrane **MOLOS**  
membran 5

## Level indicator

Vibration **MOLOS**  
vibro 6

Microwave barrier **MOLOS**  
barrier 7

Pendulum **MOLOS**  
pendu 8

Coding **MOLOS**  
code 9

## Hose couplings

Limit switch **MOLOS**  
switch 10

Swivelling lever **MOLOS**  
swing 11

Lockable couplings **MOLOS**  
lock 12

Overload protection **MOLOS**  
safe 13

Silo filling device **MOLOS**  
safe 14

## Bulk solids handling

Pressure device **MOLOS**  
pressdec 15

Microwave flow sensor **MOLOS**  
flow 16

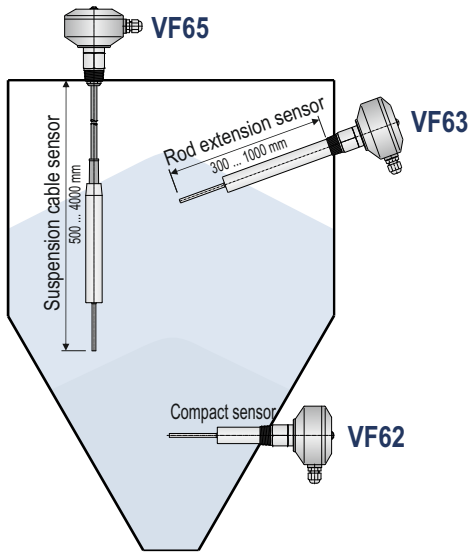
Pinch valves **MOLOS**  
valve 17



**Advantages of vibro level indicators:**

- full-, demand- and empty indicator for light bulk solids
- reliable level indication for many applications
- low installation depth due to compact structure
- use in potentially dust explosive atmospheres possible
- maintenance-free continuous operation

Container

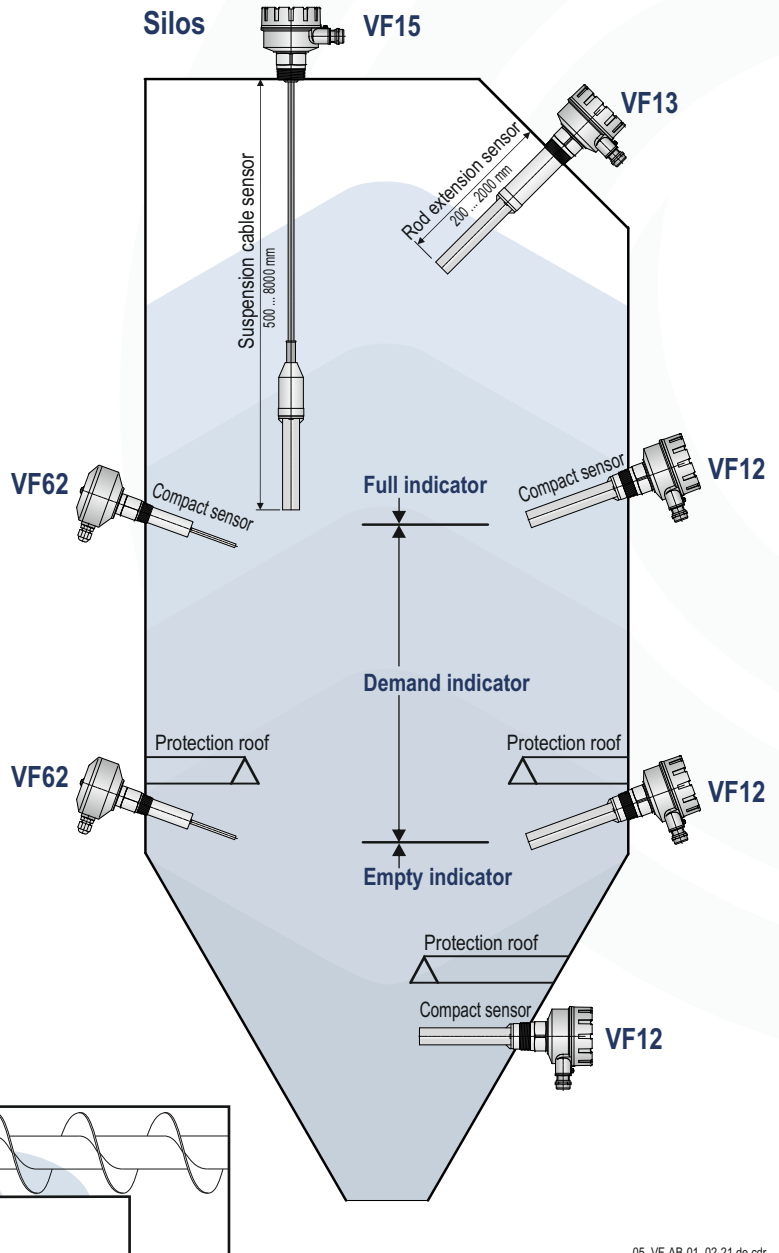


**Level indicator for bulk solids.**

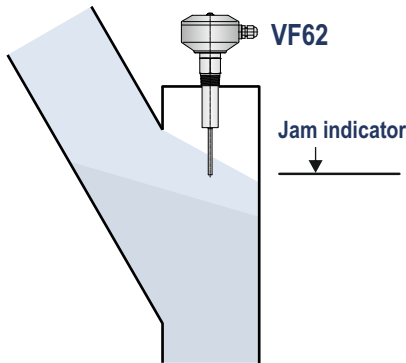
**VF**



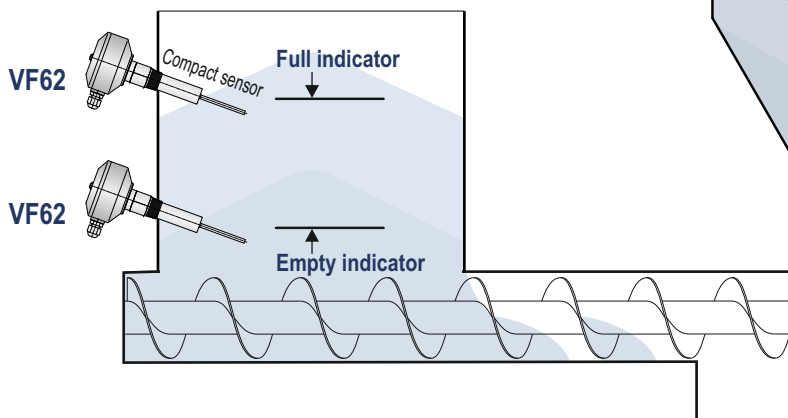
Silos



Drain pipes



Dosing equipment



05\_VF-AB-01\_02-21 de.cdr

## Selection list

# VF12

## Compact sensor

Rhombus-  
vibration rod

ATEX option B1

**Dust**  II 1/2D IIIC

ATEX option B3

**Dust**  II 1/3D IIIC

ATEX option B11

**Gas+**  II 1/2G IIB  
**Dust**  II 1/2D IIIC

1) not available with option B11

2) not available with option B11 or B1

3) available only with option B11

4) available only with option B0 and S0





## Basic device

### Choice of options with surcharges

#### Housing

- A3 **Standard** = round aluminium housing, coated RAL7001 <sup>1)</sup> .....
- A33 Separate round-housing, lead-through housing at the probe <sup>2)</sup> .....
- A1 GasEx rectangular aluminium housing, coated RAL7001 <sup>3)</sup> .....

#### Certifications, certificates, approvals

- B0 **Standard** = CE conform and IP66/IP67 (with A33: IP65) .....
- B1 ATEX  II 1/2D IIIC **Dust** .....
- B3 ATEX  II 1/3D IIIC **Dust** .....
- B11 ATEX  II 1/2G IIB **Gas** +  II 1/2D IIIC **Dust** .....

Further approvals ..... on request

#### Supply voltage

- C8 **Standard** = 22 ... 250 V AC/DC <sup>1)</sup> .....
- C5 24 V DC transistor output PNP/NPN <sup>1)</sup> .....
- C5i 23,7 V DC, supply and evaluation with VF-VEC8-B22 <sup>3)</sup> .....

#### Special equipment

- S0 **Standard** = useable for light bulk goods above 0,02 kg/l .....
- SE High sensitivity useable for very light bulk goods above 0,01 kg/l .....
- SA Sediment version, detection of deposited bulk goods in water ..... on request

#### Signal lamps

- H0 **Standard** = with function LED .....
- H1 Function LED visible from the outside, only with B0 .....

#### Process temperature / T<sub>(Process)</sub>

- E0 **Standard** = -40°C ... +80°C .....
- E1 -15°C ... +150°C .....
- E2 -20°C ... +200°C <sup>4)</sup> .....
- E3 -20°C ... +250°C <sup>4)</sup> .....
- E9 Further temperatures ..... on request

#### Process connection

- R3 **Standard** = R1½ EN 10226, steel 1.4301 / 304 ..
- N3 1½" NPT, steel 1.4301 / 304 .....

VF12  ← Order code

## Selection list

# VF13

## Rod extension sensor

6

Rhombus-  
vibration rod

ATEX option B1

Dust  II 1/2D IIIC

ATEX option B3

Dust  II 1/3D IIIC

ATEX option B11

Gas+  II 1/2G IIB  
and  
Dust  II 1/2D IIIC

- 1) not available with option B11  
2) not available with option B11 or B1  
3) available only with option B11  
4) available only with option B0 and S0






## Basic device

### Choice of options with surcharges

#### Housing

- A3 **Standard** = round aluminium housing, coated RAL7001<sup>1)</sup> .....  
A33 Separate round-housing, lead-through housing at the probe<sup>2)</sup> .....  
A1 GasEx rectangular aluminium housing, coated RAL7001<sup>3)</sup> .....

#### Certifications, certificates, approvals

- B0 **Standard** = CE conform and IP66/IP67 (with A33: IP65) .....  
B1 ATEX  II 1/2D IIIC **Dust** .....  
B3 ATEX  II 1/3D IIIC **Dust** .....  
B11 ATEX  II 1/2G IIB  +  II 1/2D IIIC **Dust** .....

Further approvals ..... on request

#### Supply voltage

- C8 **Standard** = 22 ... 250 V AC/DC<sup>1)</sup> .....  
C5 24 V DC transistor output PNP/NPN<sup>1)</sup> .....  
C5i 23,7 V DC, supply and evaluation with VF-VEC8-B22<sup>3)</sup> .....

#### Special equipment

- S0 **Standard** = useable for light bulk goods above 0,02 kg/l .....  
SE High sensitivity useable for very light bulk goods above 0,01 kg/l .....  
SA Sediment version, detection of deposited bulk goods in water ..... on request

#### Signal lamps

- H0 **Standard** = with function LED .....  
H1 Function LED visible from the outside, only with B0 .....

#### Process temperature / T<sub>(Process)</sub>



- E0 **Standard** = -40°C ... +80°C .....  
E1 -15°C ... +150°C .....  
E2 -20°C ... +200°C<sup>4)</sup> .....  
E3 -20°C ... +250°C<sup>4)</sup> .....  
E9 Further temperatures ..... on request

#### Process connection

- R3 **Standard** = R1½ EN 10226, steel 1.4301 / 304 ..  
N3 1½" NPT, steel 1.4301 / 304 .....

#### Length rod extension

- |    |   |   |   |   |   |    |                        |
|----|---|---|---|---|---|----|------------------------|
| LA | 0 | 2 | 0 | 0 | 0 | mm | basic length .....     |
|    | 0 | 0 | 0 | 0 | 0 | mm | ... any further 100 mm |
- insert required length  
in steps of 100 mm,  
range 0200 ... 2000 mm

VF13         LA     0  0  0 ← Order code

## Selection list

# VF15

## Suspension cable sensor

Rhombus-  
vibration rod

ATEX option B1

**Dust**  II 1/2D IIIC

ATEX option B3

**Dust**  II 1/3D IIIC

ATEX option B11

**Gas+**  II 1/2G IIB  
**Dust**  II 1/2D IIIC

1) not available with option B11

2) not available with option B11 or B1

3) available only with option B11





## Basic device

### Choice of options with surcharges

#### Housing

- A3 **Standard** = round aluminium housing, coated RAL7001<sup>1)</sup> .....
- A33 Separate round-housing, lead-through housing at the probe<sup>2)</sup> .....
- A1 GasEx rectangular aluminium housing, coated RAL7001<sup>3)</sup> .....

#### Certifications, certificates, approvals

- B0 **Standard** = CE conform and IP66/IP67 (with A33: IP65) .....
- B1 ATEX  II 1/2D IIIC **Dust** .....
- B3 ATEX  II 1/3D IIIC **Dust** .....
- B11 ATEX  II 1/2G IIB **Gas+**  II 1/2D IIIC **Dust** .....

Further approvals ..... on request

#### Supply voltage

- C8 **Standard** = 22 ... 250 V AC/DC<sup>1)</sup> .....
- C5 24 V DC transistor output PNP/NPN<sup>1)</sup> .....
- C5i 23,7 V DC, supply and evaluation with VF-VEC8-B22<sup>3)</sup> .....

#### Special equipment

- S0 **Standard** = useable for light bulk goods above 0,02 kg/l .....
- SE High sensitivity useable for very light bulk goods above 0,01 kg/l .....
- SA Sediment version, detection of deposited bulk goods in water ..... on request

#### Signal lamps

- H0 **Standard** = with function LED .....
- H1 Function LED visible from the outside, only with B0 .....

#### Process temperature / T(Process)

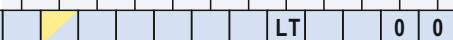
- E0 **Standard** = -40°C ... +70°C .....
- E9 Further temperatures ..... on request

#### Process connection

- R3 **Standard** = R1½ EN 10226, steel 1.4301 / 304 ..
- N3 1½" NPT, steel 1.4301 / 304 .....

#### Length suspension cable

- |    |   |   |   |   |    |  |
|----|---|---|---|---|----|--|
| LT | 1 | 0 | 0 | 0 | mm | basic length .....   |
|    | 0 | 0 | 0 | 0 | mm | ... any further 100 mm<br>insert required length<br>in steps of 100 mm,<br>range 0500 ... 8000 mm<br>(longer on request) |

VF15  LT 0 0 ← Order code

## Selection list

# VF62

## Compact sensor

(VF06 changed to VF62)

6

Mini-  
vibration rod

ATEX option B1

Dust  II 1/2D IIIC

ATEX option B3

Dust  II 1/3D IIIC

ATEX option B11

Gas+  II 1/2G IIB  
and  
Dust  II 1/2D IIIC

- 1) not available with option B3  
2) not available with option B1 or B11  
3) not available with option B1, B11 or E1






## Basic device

### Choice of options with surcharges

#### Housing

- A1 **Standard** = round aluminium housing, coated RAL7001 <sup>1)</sup> .....  
A22 Separate round-housing, round lead-through housing at the probe <sup>2)</sup> .....  
A23 Separate round-housing, angled screw coupling at the probe <sup>3)</sup> .....

#### Certifications, certificates, approvals

- B0 **Standard** = CE conform and IP66/IP67 (with A22, A23: IP65) .....  
B1 ATEX  II 1/2D IIIC **Dust** .....  
B3 ATEX  II 1/3D IIIC **Dust** .....  
B11 ATEX  II 1/2G IIB  +  II 1/2D IIIC **Dust** .....

Further approvals ..... on request

#### Supply voltage

- C8 **Standard** = 20 ... 250 V AC/DC not with B11 .....  
C5i 23,7 V DC only with B11 GasEx, supply and evaluation with VF-VEC8-B22 .....

#### Special equipment

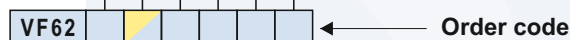
- S0 **Standard** = useable for light bulk goods above 0,02 kg/l .....  
SE High sensitivity useable for very light bulk goods above 0,01 kg/l .....  
SA Sediment version, detection of deposited bulk goods in water .....

#### Process temperature

- E0 **Standard** = -20°C ... +80°C .....  
E1 -20°C ... +150°C .....  
E9 Further temperatures ..... on request

#### Process connection

- R1 **Standard** = R1 EN 10226, stainless steel 1.4301 / 304 .....  
N1 1" NPT, stainless steel 1.4301 / 304 .....

VF62  ← Order code

**Selection list**

**VF63**  
**Rod extension sensor**

Mini-vibration rod

ATEX option B1

**Dust**  II 1/2D IIIC

ATEX option B3

**Dust**  II 1/3D IIIC

ATEX option B11

**Gas+**  II 1/2G IIB  
**Dust**  II 1/2D IIIC

- 1) not available with option B3
- 2) not available with option B1 or B11
- 3) not available with option B1, B11 or E1





**Basic device**

Choice of options with surcharges

Housing

- A1 **Standard** = round aluminium housing, coated RAL7001 <sup>1)</sup> .....
- A22 Separate round-housing, round lead-through housing at the probe <sup>2)</sup> .....
- A23 Separate round-housing, angled screw coupling at the probe <sup>3)</sup> .....

Certifications, certificates, approvals

- B0 **Standard** = CE conform and IP66/IP67 (with A22, A23: IP65) .....
- B1 ATEX  II 1/2D IIIC **Dust** .....
- B3 ATEX  II 1/3D IIIC **Dust** .....
- B11 ATEX  II 1/2G IIB **Gas+**  II 1/2D IIIC **Dust** .....

Further approvals ..... on request

Supply voltage

- C8 **Standard** = 20 ... 250 V AC/DC not with B11 .....
- C5i 23,7 V DC only with B11 GasEx, supply and evaluation with VF-VEC8-B22 .....

Special equipment

- S0 **Standard** = useable for light bulk goods above 0,02 kg/l .....
- SE High sensitivity useable for very light bulk goods above 0,01 kg/l .....
- SA Sediment version, detection of deposited bulk goods in water .....

Process temperature





- E0 **Standard** = -20°C ... +80°C .....
- E1 -20°C ... +150°C .....
- E9 Further temperatures ..... on request

Process connection

- R1 **Standard** = R1 EN 10226, stainless steel 1.4301 / 304 .....
- N1 1" NPT, stainless steel 1.4301 / 304 .....

Length rod extension

LA	0	3	0	0	mm	basic length .....
	0	0	0	0	mm	..... any further 100 mm insert required length in steps of 100 mm, range 0300 ... 1000 mm

VF63   LA  0  0 ← Order code

## Selection list

# VF65

## Suspension cable sensor

6

Mini-  
vibration rod

ATEX option B1

Dust  II 1/2D IIIC

ATEX option B3

Dust  II 1/3D IIIC

ATEX option B11

Gas+  II 1/2G IIB  
Dust  II 1/2D IIIC

- 1) not available with option B3  
2) not available with option B1 or B11






## Basic device

### Choice of options with surcharges

#### Housing

- A1 **Standard** = round aluminium housing, coated RAL7001 1) .....  
A22 Separate round-housing, round lead-through housing at the probe 2) .....  
A23 Separate round-housing, angled screw coupling at the probe 2) .....

#### Certifications, certificates, approvals

- B0 **Standard** = CE conform and IP66/IP67 (with A22, A23: IP65) .....  
B1 ATEX  II 1/2D IIIC **Dust** .....  
B3 ATEX  II 1/3D IIIC **Dust** .....  
B11 ATEX  II 1/2G IIB  +  II 1/2D IIIC **Dust** .....  
Further approvals ..... on request

#### Supply voltage

- C8 **Standard** = 20 ... 250 V AC/DC not with B11 .....  
C5i 23,7 V DC only with B11 GasEX, supply and evaluation with VF-VEC8-B22 .....

#### Special equipment

- S0 **Standard** = useable for light bulk goods above 0,02 kg/l .....  
SE High sensitivity useable for very light bulk goods above 0,01 kg/l .....  
SA Sediment version, detection of deposited bulk goods in water .....

#### Process temperature

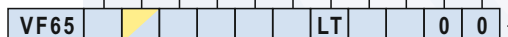
- E0 **Standard** = -20°C ... +70°C .....  
E9 Further temperatures ..... on request

#### Process connection

- R1 **Standard** = R1 EN 10226, stainless steel 1.4301 / 304 .....  
N1 1" NPT, stainless steel 1.4301 / 304 .....

#### Length suspension cable

- LT 0 5 0 0 mm basic length .....  
0 0 0 0 mm ..... any further 500 mm  
insert required length  
in steps of 500 mm,  
range 0500 ... 4000 mm

VF65  LT 0 0 ← Order code



## Selection list

# VF

## Accessories

ATEX option B22

Gas+  
Dust  II (1)G IIB  
and  
II (1)D IIIC

### Accessory



for VF ... B11 and VF ... B22 this device has to be used **always**:

**VF-VEC8-B22** Supply and evaluation device for supply voltage C5i .....

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