Level measurement

Guided wave radar	MOLOS wave	1
Yo-Yo sensing systems	MOLOS bob	2
Visualization	MOLOS visu	3

level indicator

Rotation DF11	MOLOS roto	4
Membrane	MOLOS membran	5
Vibration	MOLOS vibro	6
Microwave barrier	MOLOS barrier	7
Pendulum	MOLOS pendu	8

Hose couplings

Coding	MOLOS code	9
Limit switch	MOLOS switch	10
Swivelling lever	MOLOS swing	11
Lockable couplings	MOLOS lock	12

Bulk solids handling

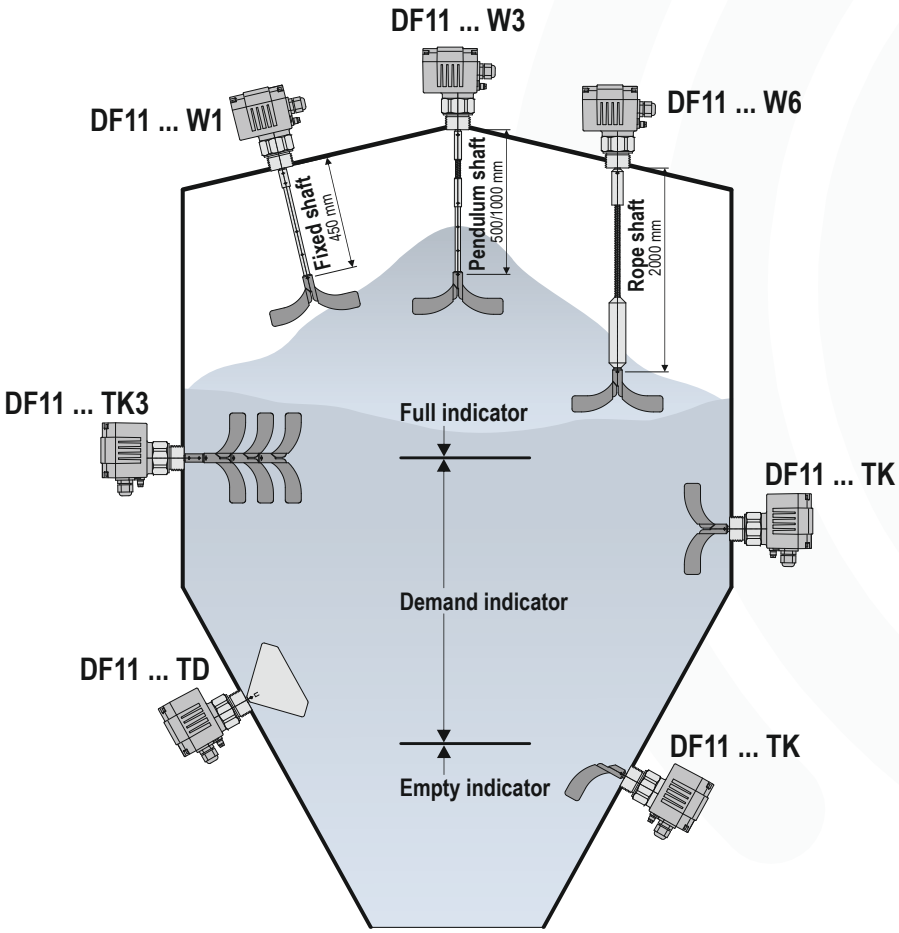
Overfill protection	MOLOS safe	13
Silo filling device	MOLOS safe	14
Pressure gauge	MOLOS pressdec	15
Microwave flow sensor	MOLOS flow	16
Pinch valves	MOLOS valve	17



Product features

- immune to dust, pressure and temperature
- effortless installation even in small tanks and containers
- reliable, maintenance-free endurance runner

Filling level limit switch for bulk solids
Full, empty and demand indicator for simple applications



Offer information 2024-2025

Full, empty and demand indicator for simple applications

Materials	**Housing**	Aluminium pressure casting, RAL 7001 coated
	Process connection	Aluminium
	Shafts, rope	Stainless steel 1.4301 / 304
	Tensioning weight	Stainless steel 1.4301 / 304
	Blade TK	Plastic PP
	Blade TD	Stainless steel 1.4301 / 304
Signal contact		2 A / 250V AC potential-free
Type of protection		IP66 in accordance with DIN EN 60529
Ambient temperature		T_a -20 °C ... +70 °C
Bulk solids temperature		$T_{(Process)}$ -25 °C ... +80 °C
Pressure in the container		$p_{(Process)}$ -0.5 bar ... 1 bar
Maintenance		none

A rotary blade level limit switch of this quality has never been so cheap!

for example:

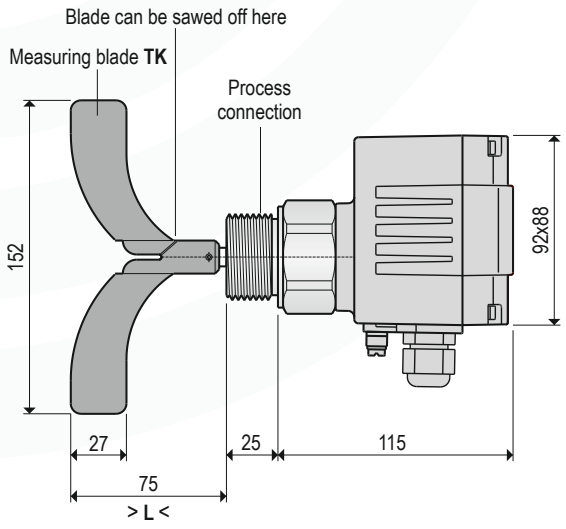
DF11A1C1G2ATK

of course with
aluminium housing and
aluminium process connection

DF11

A1 Aluminium compact housing
TK measuring blade

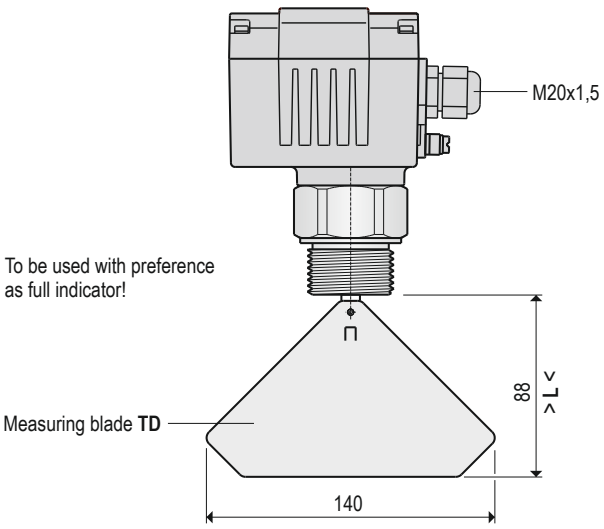
Ex -Info
The measuring blade TK150 must not be used in containers being filled with a pneumatic conveyor.



When using as an empty indicator, we recommend sawing off the plastic blade on one side.

DF11

A1 Aluminium compact housing
TD measuring blade



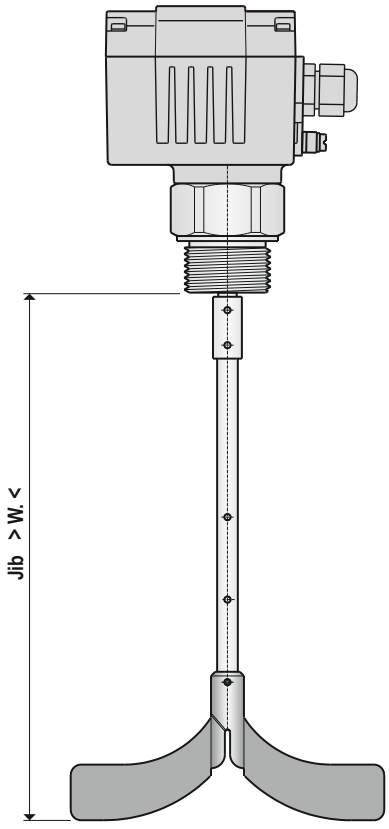
Jib length **> L <** 13 mm longer with **TD** measuring blade

Jib extensions

W1, W3, W4 and W6 for vertical installation

DF11

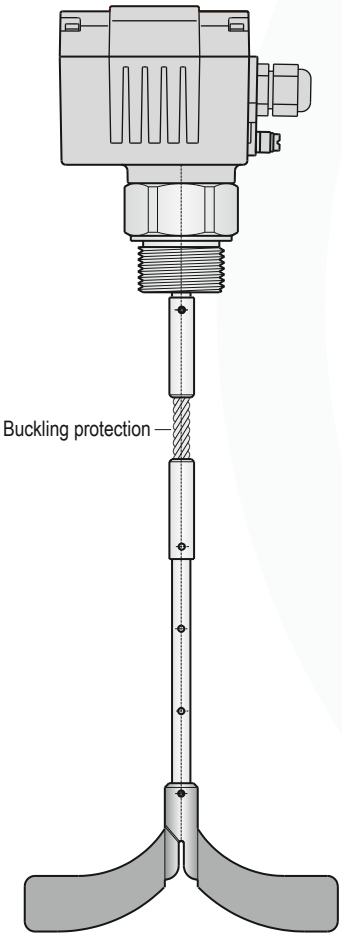
W1 Fixed shaft 450 mm
TK Measuring blade



DF11

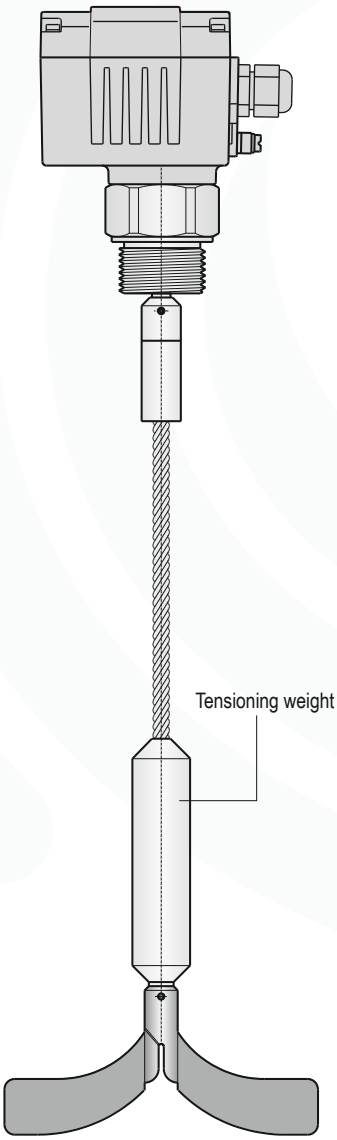
W3 Pendulum shaft 550 mm
TK Measuring blade

W4 Pendulum shaft 1050 mm
TK Measuring blade



DF11

W6 Rope shaft 2000 mm
TK Measuring blade



Offer information 2024-2025

DF11

Full, empty and demand indicator

Basic device

Options

Compact housing CE conform and **IP66 made of**

A1 Aluminium, coated **RAL 7001**

Compact housing CE conform and **IP66 made of** — **Certifications, certificates, approvals**

A1B1 Aluminium, coated **RAL 7001** — **ATEX** Ex II 1/2D IIIC Dust

A1B3 Aluminium, coated **RAL 7001** — **ATEX** Ex II 1/3D IIIB Dust

Supply voltage / *Supply*

C1 220 ... 240 V AC 50 ... 60 Hz

C2 110 ... 120 V AC 50 ... 60 Hz

C3 48 V AC 50 ... 60 Hz

C4 24 V AC 50 ... 60 Hz

C5 24 V DC

Speed of measuring blade

U0 **Standard** 1 rpm

U5 5 rpm

Signal lamps [1]

Standard without function LED's

H5 with function LED's

H6 Flat dome for function LED's installed in the device cover

Process connection (product touching) made of **aluminium AlMgSi**

G1A Thread G1 DIN EN ISO 228-1

G2A Thread G1¼ DIN EN ISO 228-1

G3A Thread G1½ DIN EN ISO 228-1

G5A Thread M30x1,5

G6A Thread M32x1,5

Measuring blade

M0 **without measuring blade**

>>> inexpensive made of **plastic PP**, black

TK Blade TK150 Dimensions 152x27 mm

TK3 3x blade TK150 Dimensions 152x120 mm

>>> inexpensive made of **stainless steel 1.4301 / 304**

TD Blade TD140 Dimensions 140x85 mm

-S1 Socket blade Dimensions 100x30 mm inclined [2]

>>> made of stainless steel 1.4301 / 304

-S2 Socket blade Dimensions 130x30 mm inclined

-X1 Blade X50 Dimensions 98x50 mm

-X2 Blade X100 Dimensions 98x100 mm

-X3 Blade X200 Dimensions 180x100 mm

Jib extension (product touching) made of **stainless steel 1.4301 / 304**

Standard without extension

W1 Fixed shaft Length 450 mm

W3 Pendulum shaft Length 550 mm

W4 Pendulum shaft Length 1050 mm

W6 Rope shaft Length 2000 mm

DF11 ← Order code

Accessories

-SH Weather protection hood in PVC, **RAL 7001**
only approved for zone 22 and zone-free

Hexagon nuts made of AlMgSi

-SM1A G1 DIN EN ISO 228-1

-SM2A G1¼ DIN EN ISO 228-1

-SM3A G1½ DIN EN ISO 228-1

-KV1 2. Standard cable gland

-KV2 2. ATEX cable gland

DF-MG2 Mounting flange **for textile silos with IG1¼**

[1] **not** available together with **B1**
[2] **not** available together with **W6**

Devery from Stock
ordered until 12°° - dispatched at 16°°

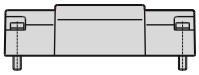
Quantity discounts

5 - 9	3 %
10 - 24	5 %
25 - 50	10 %

Offer information 2024-2025

DF
Calottes and housing lid


DF-KL1

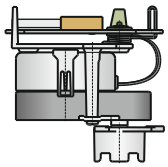

DF-GD

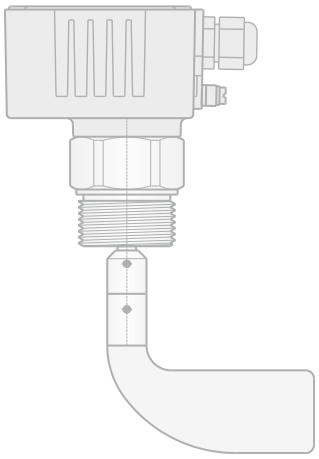
Options

Calottes
DF-KL1 for function LEDs with sealing ring (H6) .....

Housing lid made of aluminium
DF-GD0 solo .....
DF-GD1 for function LEDs (H6) .....

DFPM
Printed circuit board with motor


DFPM



Basic device

Options

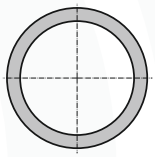
Supply voltage
C1 220...240 V AC (50 ... 60 Hz) .....
C2 110...120 V AC (50 ... 60 Hz) .....
C3 48 V AC (50 ... 60 Hz) .....
C4 24 V AC (50 ... 60 Hz) .....
C5 24 V DC .....

Measuring blade speed
U1 Standard 1 rpm .....
U5 5 rpm .....

Signal lamps
H9 Standard without function LEDs .....
H0 with function LEDs .....

DFPM ← Order code

DR
Seals for process connections



Options

Process connection seals for temperatures up to			made of material
G1E0	Thread G1 DIN/ISO 228	+80 °C	NBR brigth for food
G2E0	Thread **G1¼** DIN/ISO 228	+80 °C	NBR brigth for food
G3E0	Thread **G1½** DIN/ISO 228	+80 °C	NBR brigth for food
G5E0	Thread M30x1,5	+80 °C	NBR brigth for food
G6E0	Thread M32x1,5	+80 °C	NBR brigth for food



Offer information

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