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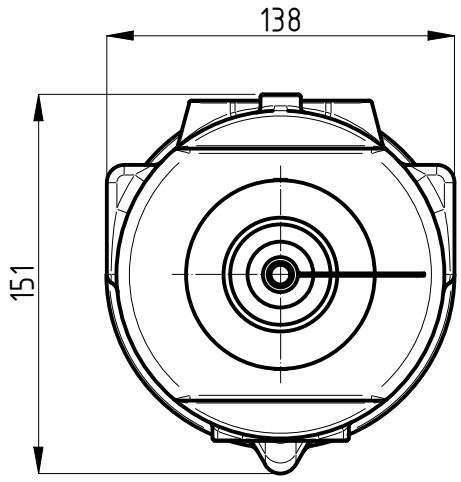
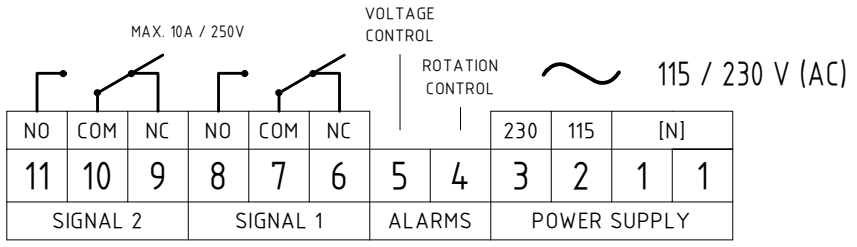
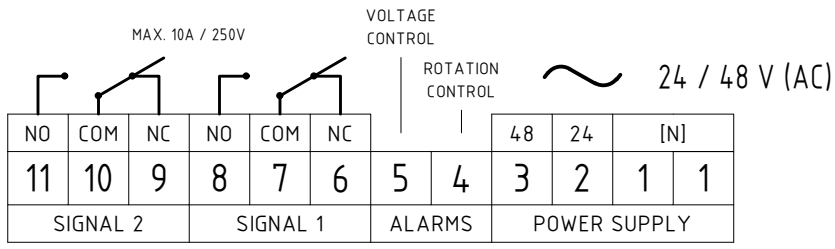
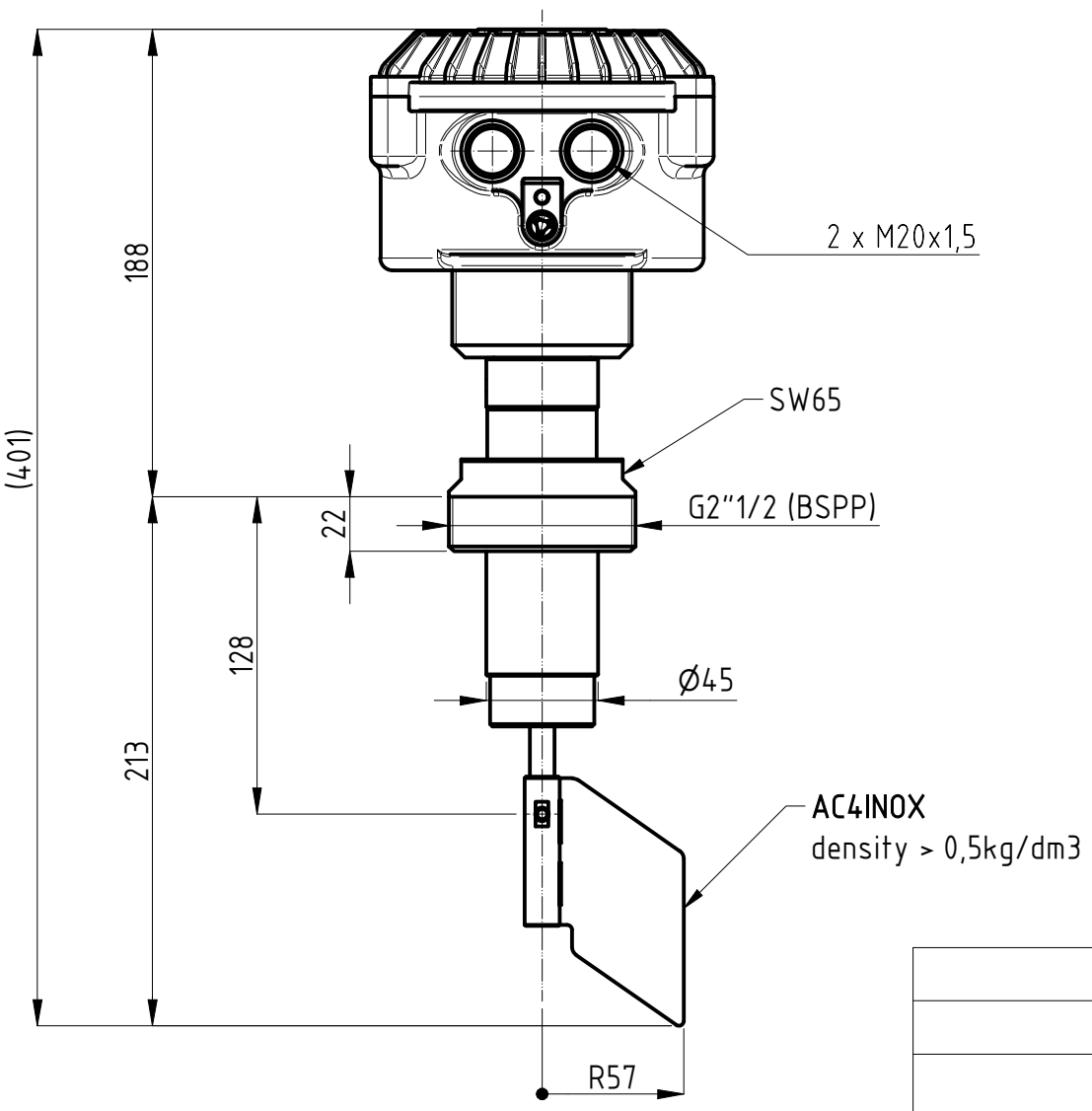
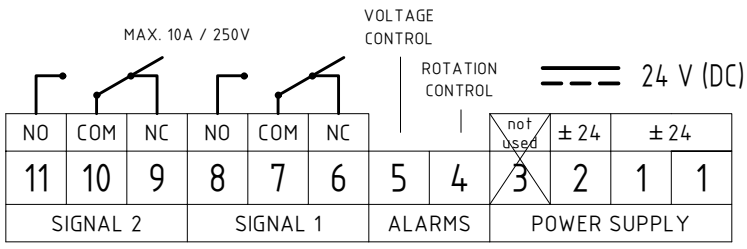




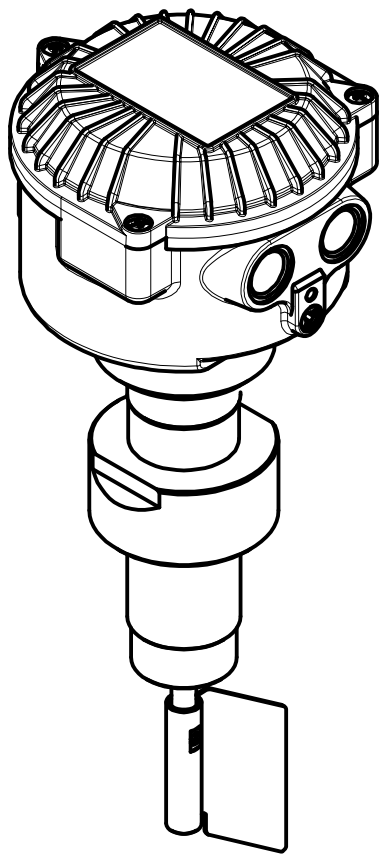






Terminals : male FASTON (.250 series / 6,3x0,8 mm)

PFG05AT



Model	PFG05AT
Weight	3,0 [kg]
Power supply	- Bivoltage 115/230[V] (50...60Hz) - 4[W] - Bivoltage 24/48[V] (50...60Hz) - 4[W] - DC 24[V] ±15% - 4[W]
Signal	SPDT / max. 10[A]-250VAC
IP grade	IP65
Housing	Aluminium (powder coated)
Connection	G2" 1/2 - AISI304
Ambient temperature	-20 < Ta < +70 [°C] -40 < Ta < +70 [°C] *LOW TEMPERATURE versions only (PFG.../B)*
Process temperature	-20 < Tp < +200 [°C]
Pressure range	+0,8 ... +1,1 bar [abs] +0,8 ... +5 bar [abs] *(non ATEX versions)*
Directives	2011/65/EU (RoHS) 2014/30/EU (EMC) 2014/34/EU (ATEX) 2014/35/EU (LVD)
ATEX Marking	Ex II 1/2 D Ex ta/tb IIIC T85°C IP65 Da/Db Ex II 3 D Ex tc IIIB T85°C Dc (Lamp version)
IECEx Marking	Ex ta/tb IIIC T85°C Da/Db

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DRAWING N. 0602_0004_00

SHEET: 1 OF 5

REV: 1

GENERAL TOL.: ISO 2768-mH

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN [mm]

DRAWING FROM CAD SYSTEM - REFER TO 3D MODEL FOR MISSING DIMENSION - NO MANUAL MODIFICATION ALLOWED

SCALE: 1 : 3

DRAWN NR

DATE 21.09.2021

SIZE UNI A3

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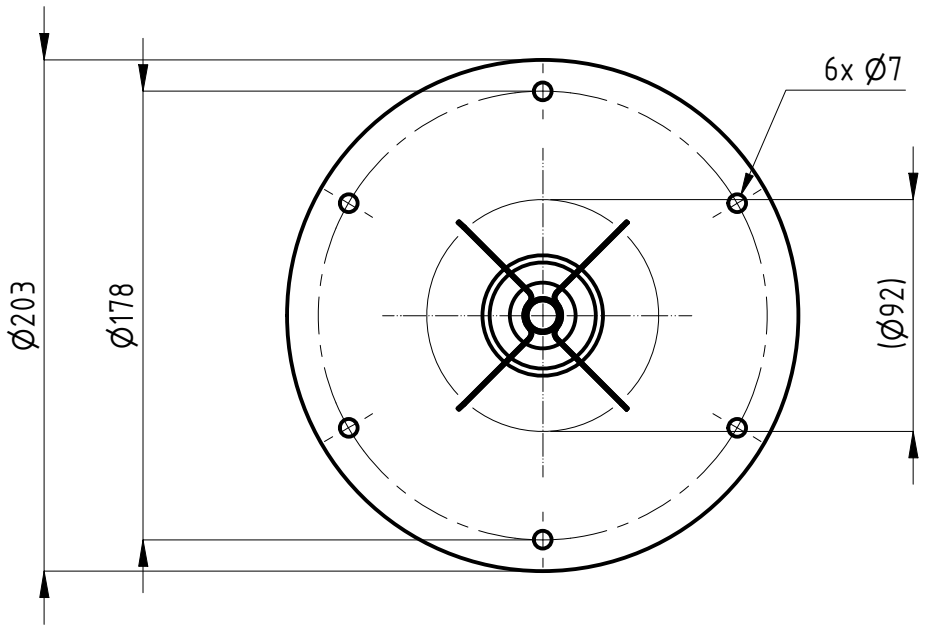
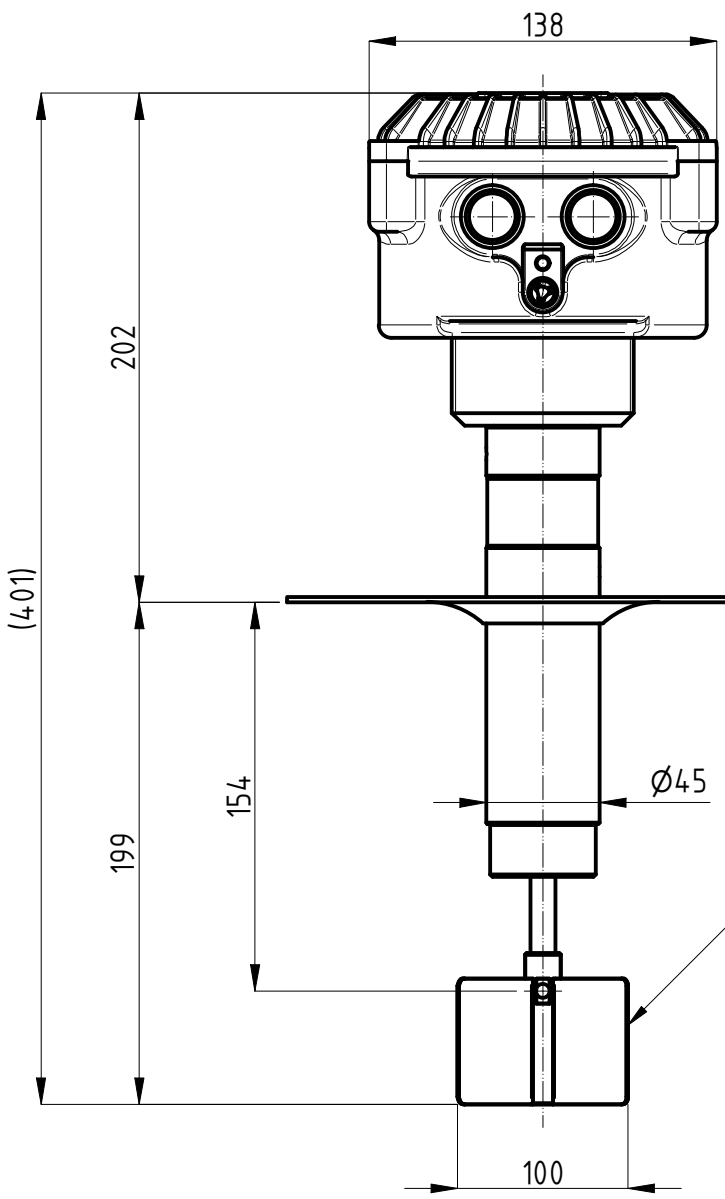
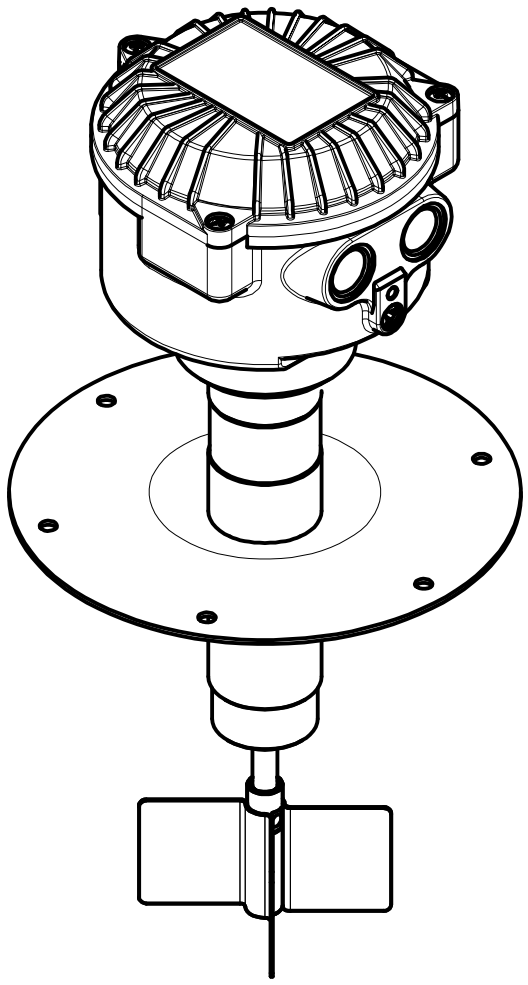
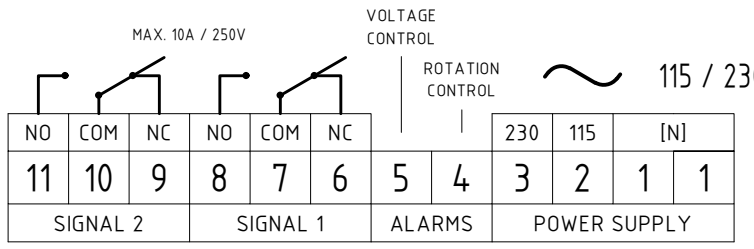
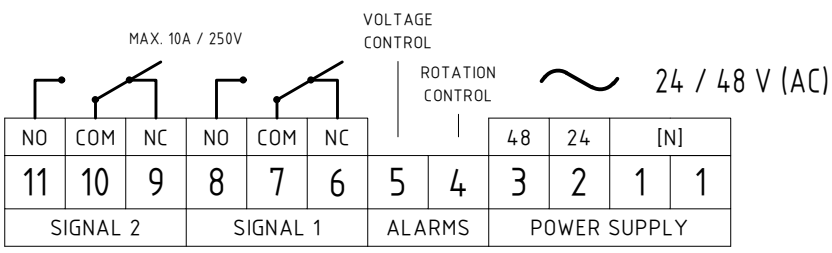


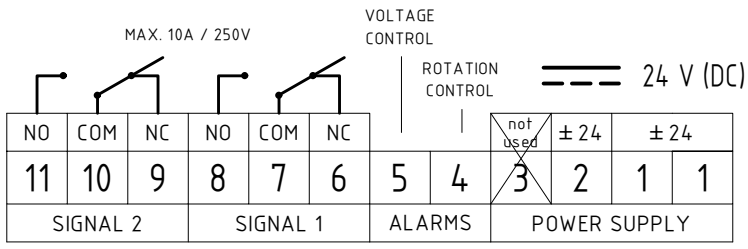


PFG05AT/F









Terminals : male FASTON (.250 series / 6,3x0,8 mm)

Model	PFG05AT/F
Weight	2,8 [kg]
Power supply	- Bivoltage 115/230[V] (50...60Hz) - 4[W] - Bivoltage 24/48[V] (50...60Hz) - 4[W] - DC 24[V] ±15% - 4[W]
Signal	SPDT / max. 10[A]-250VAC
IP grade	IP65
Housing	Aluminium (powder coated)
Connection	Flange - AISI304
Ambient temperature	-20 < Ta < +70 [°C] -40 < Ta < +70 [°C] *LOW TEMPERATURE versions only (PFG.../B)*
Process temperature	-20 < Tp < +200 [°C]
Pressure range	+0,8 ... +1,1 bar [abs] +0,8 ... +5 bar [abs] *(non ATEX versions)*
Directives	2011/65/EU (RoHS) 2014/30/EU (EMC) 2014/34/EU (ATEX) 2014/35/EU (LVD)
ATEX Marking	Ex II 1/2 D Ex ta/tb IIIC T85°C IP65 Da/Db Ex II 3 D Ex tc IIIB T85°C Dc (Lamp version)
IECEx Marking	Ex ta/tb IIIC T85°C Da/Db

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DRAWING N. 0602_0004_00

SHEET: 2 OF 5

REV: 1

GENERAL TOL.: ISO 2768-mH

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN [mm]

DRAWING FROM CAD SYSTEM - REFER TO 3D MODEL FOR MISSING DIMENSION - NO MANUAL MODIFICATION ALLOWED

SCALE: 1 : 3

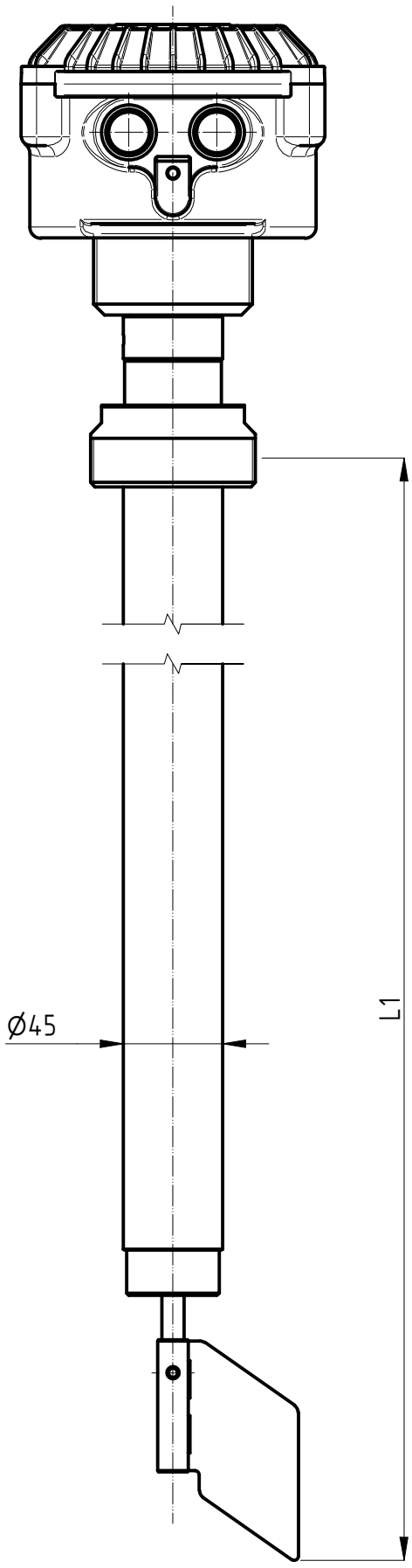
DRAWN NR

DATE 21.09.2021

SIZE UNI A3

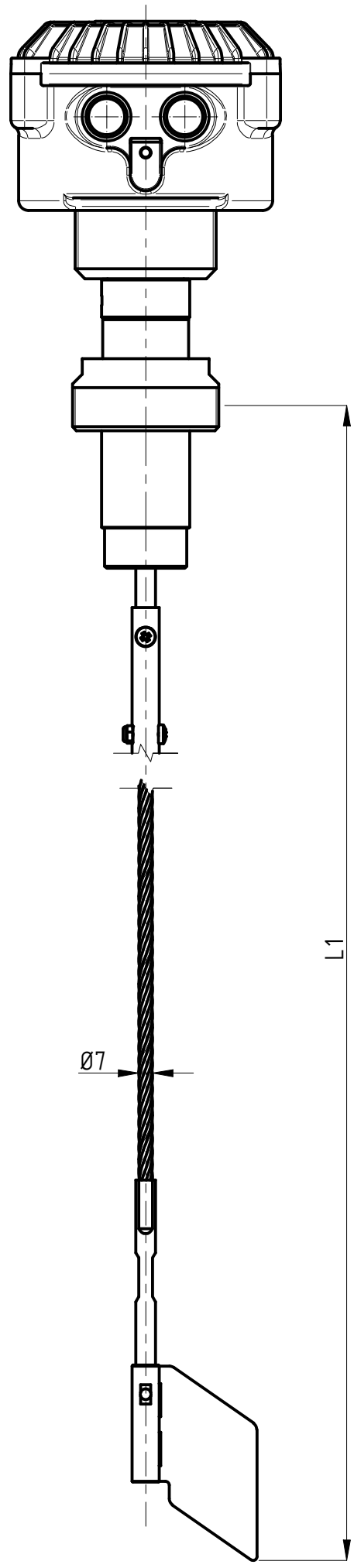
EXTENSIONS

Extension with external protection
PA : stainless steel



L1 [mm]
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
other lengths available on request, up to 1,5m

Flexible extension
PF : galvanized steel



L1 [mm]
500
600
700
800
900
1000
1200
1500
2000
2500
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
other lengths available on request, up to 12m

NOTE : lenghts may slightly differ from the tables according to the type of connection, model type and paddle chosen

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DRAWING FROM CAD SYSTEM - REFER TO 3D MODEL FOR MISSING DIMENSION - NO MANUAL MODIFICATION ALLOWED

DRAWING N. 0602_0004_00

SCALE: 1:3

SHEET: 3 OF 5

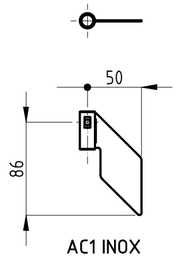
REV: 1

DRAWN NR

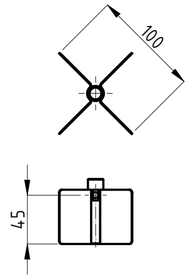
DATE 30.09.2021

SIZE UNI A3

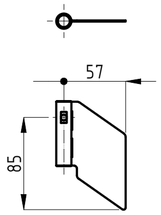
PADDLES



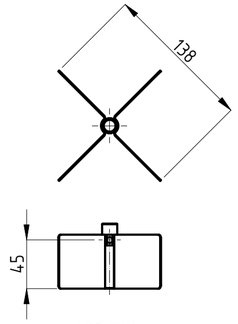
AC1 INOX
AISI 304
density > 1.0 kg/dm3



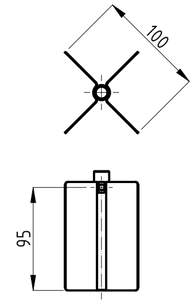
AC3 INOX
AISI 304
density > 0.3 kg/dm3



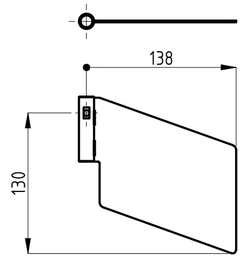
AC4 INOX
AISI 304
density > 0.5 kg/dm3



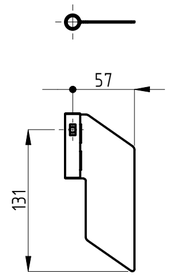
AC5 INOX
AISI 304
density > 0.2 kg/dm3



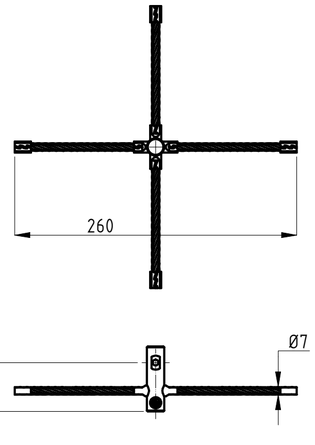
AC5L INOX
AISI 304
density > 0.2 kg/dm3



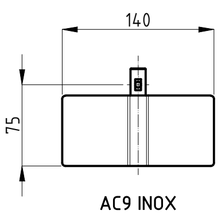
AC6 INOX
AISI 304
density > 0.1 kg/dm3



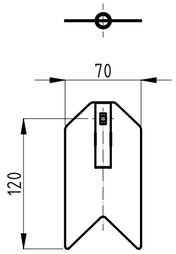
AC7 INOX
AISI 304
density > 0.3 kg/dm3



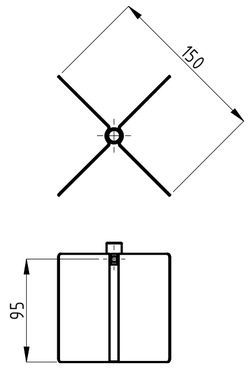
AC8
galvanized steel (wires)
density > 2.0 kg/dm3



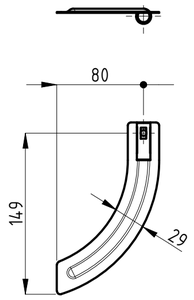
AC9 INOX
AISI 304
density > 0.2 kg/dm3



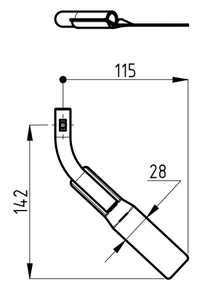
AC10 INOX
AISI 304
density > 0.6 kg/dm3



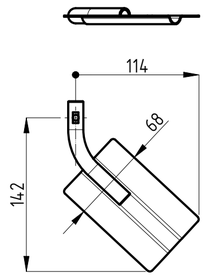
AC11 INOX
AISI 304
density > 0.1 kg/dm3



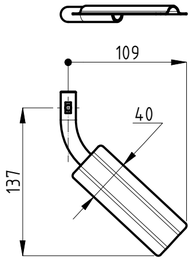
AC12 INOX
AISI 304
density > 0.4 kg/dm3



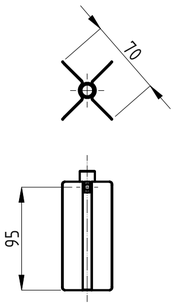
AC14 INOX
AISI 304
density > 0.4 kg/dm3



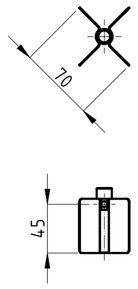
AC15 INOX
AISI 304
density > 0.2 kg/dm3



AC16 INOX
AISI 304
density > 0.3 kg/dm3



AC17 INOX
AISI 304
density > 0.4 kg/dm3



AC18 INOX
AISI 304
density > 0.7 kg/dm3

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SHEET: 4 OF 5

REV: 1

GENERAL TOL.: ISO 2768-mH

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN [mm]

DRAWING FROM CAD SYSTEM - REFER TO 3D MODEL FOR MISSING DIMENSION - NO MANUAL MODIFICATION ALLOWED

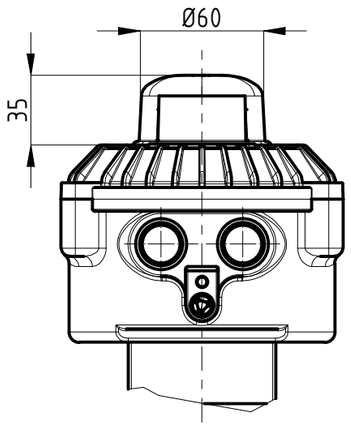
SCALE: 1 : 4

DRAWN NR

DATE 30.09.2021

SIZE UNI A2

OPTIONS



SIGNAL LAMP (PFG05.../L)

Adds a LED lamp on top. The lamp could be connected to NC contact (MIN level – empty), or NO contact (MAX level – full).

Must define a single power supply voltage:
- 24[V]
- 48[V]
- 115[V]
- 230[V]

NOTE
Model with lamp can be installed only in Atex zone 22
Marking: Ex II 3 D Ex tc IIIB T85°C Dc

DOUBLE DRY CONTACT

Adds a second signal contact SPDT (terminals 9 – 10 – 11)

MAX. 10A / 250V

NO	COM	NC	NO	COM	NC						
11	10	9	8	7	6			3	2	1	1
SIGNAL 2			SIGNAL 1					POWER SUPPLY			

VOLTAGE CONTROL

Adds an alarm in case of power supply failure.
When power supply is OFF, a relay closes terminals 5 and 7

Must define a single power supply voltage:
- 24[V]
- 48[V]
- 115[V]
- 230[V]

MAX. 10A / 250V — 115 / 230 V (AC)

NO	COM	NC	S		230	115	[N]	
8	7	6	5		3	2	1	1
SIGNAL 1			ALARMS		POWER SUPPLY			

e.g. 230V Voltage contr.
V 1-3 = 230V / V5 = 0
V 1-3 = 0V / V5 = V7

ROTATION CONTROL

Adds a signal to indicate shaft rotation.
When the shaft rotates, a microswitch generates a pulse signal (8 pulse / rotation) between terminals 1 and 4.
On request, it is possible to have the pulsed signal between terminals 4 and 7.

MAX. 10A / 250V — 115 / 230 V (AC)

NO	COM	NC		8	230	115	[N]	
8	7	6		4	3	2	1	1
SIGNAL 1			ALARMS		POWER SUPPLY			

Rotation control
Rot. ON – 8 [pulse/rnd]
Rotation OFF – non pulse

LOW TEMPERATURE (PFG05.../B)

Extends the range of use of the indicator down to a minimum temperature of -40 ° C
Intelligent automatic operation: when the temperature exceeds + 20 ° C it stops heating (heating OFF), it is reactivated when the temperature falls again below + 20 ° C (heating ON)

Must define a single power supply voltage:
- 24[V]
- 48[V]
- 115[V]
- 230[V]

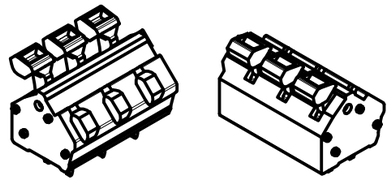
MAX. 10A / 250V — 115 / 230 V (AC)

NO	COM	NC		230	115	[N]	
8	7	6		3	2	1	1
SIGNAL 1				POWER SUPPLY			

e.g. 230V Heater
T > 20°C / P=0.5W
T < 20°C / P=6,5W

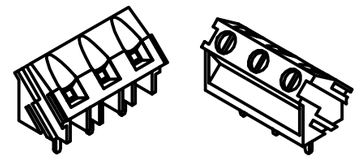
SPRING TERMINAL BLOCK

Terminals with spring terminal design.
No tool needed for wires connection.
0,13 – 2,5mm2 (AWG26 – AWG14)



SCREW TERMINAL BLOCK

Terminals with screw terminal design (flat head)
0,05 – 2,5mm2 (AWG30 – AWG12)



4rpm GEARMOTOR

Increase paddle speed (4 rpm) to reduce product detection delay time (response time ~ 1,5s)

CONDENSATION FILTER

It allows the exchange of air temperature and pressure with the ambient, preventing the formation of condensation. The option does not alter the IP grade and the Ex marking of the device.

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DRAWING N. 0602_0004_00

SHEET: 5 OF 5

REV: 1

GENERAL TOL.: ISO 2768-mH

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN [mm]

DRAWING FROM CAD SYSTEM – REFER TO 3D MODEL FOR MISSING DIMENSION – NO MANUAL MODIFICATION ALLOWED

SCALE: 1 : 3

DRAWN NR

DATE 14.10.2021

SIZE UNI A3