

PF75H (compact, two electrical connections)

Electromagnetic flow meter for hygienic applications

PF75H-5#####8#03D1##2112#110#0, PF75H-5#####B#03D1##2112#110#0, PF75H-5#####D#03D1##2112#110#0

Overview

- Volume and velocity measurement in one sensor
- Especially precise and stable measurements with accuracies to 0.2%
- For media with conductivity > 5 µS/cm in closed systems
- Measurement range 0 ... 280 m³/h with tube diameter DN 3 ... 100
- Hygienic design with 3-A and FDA conformity
- No energy loss thanks to continuous measuring tube without constriction
- Graphic display CombiView DFON optionally available and programmable via touch screen or BCP software



Picture similar



Technical data

Performance characteristics

| | |
|------------------------|-------------------------------------------|
| Measuring principle | Electromagnetic flow measurement |
| Nominal diameter range | DN 3 ... DN 100 |
| Max. flow velocity | 10 m/s |
| Max. measuring error | ± 0.5 % o. r. ± 0.2 % o. r. , optional |
| Max. turndown ratio | 1 : 1000 |
| Measuring range, flow | 0.1 ... 10 m/s 0 ... 288 m³/h |
| Media characteristics | ≥ 5 µS/cm |
| Step response time | ≤ 400 ms |
| Sampling interval | ≤ 200 ms |
| Min. measuring span | 0 ... 10.3 l/h |
| Damping | 0.2 ... 1000 s |
| Repeatability | ≤ 0.1 % o. r. |

Process conditions

| | |
|-----------------------|--------------------------------------------------------|
| Process temperature | -20 ... 100 °C |
| Process pressure | -1 ... 16 bar |
| SIP/CIP compatibility | < 30 min, in general @ medium temperature up to 130 °C |

Process connection

| | |
|-------------------------------------------|------------------------------|
| Sensor tube material | AISI 304 (1.4301) |
| Wetted parts material | PTFE, Accofal 3G54, optional |
| Wetted parts material, process connection | AISI 316L (1.4404) |
| Wetted parts material, liner | PTFE |
| Wetted parts material, electrodes | AISI 316L (1.4404) |
| Wetted parts material, gasket | FKM |

Process connection

| | |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface roughness wetted parts | Ra ≤ 0.8 µm |
| Connection variants | ISO 2852 (Tri-Clamp) / DIN 32676-B BS 4825-3 (ASME BPE) / DIN 32676-C SMS 1145 male thread, COP DIN 11851 (dairy pipe connection) DIN EN 10357 series A (DIN 11850-2), weldable pipe end In order to maintain compliance with 3-A Sanitary Standards for DIN 11851 these connections must be fitted with a special gasket from either SKS Komponenten System (SKS) B.V. or Asepto Star k-flex gasket from Kieselmann GmbH. |

Surface roughness (in contact with medium)

| | |
|--------------------|--------------------------------------|
| Process connection | Ra ≤ 0.8 µm Ra ≤ 0.4 µm, optional |
|--------------------|--------------------------------------|

Ambient conditions

| | |
|---------------------------------|-------------------------------------------------------------------------------------|
| Operating temperature range | -20 ... 80 °C , with DFON touch screen -20 ... 85 °C , without DFON touch screen |
| Storage temperature range | -20 ... 60 °C |
| Altitude | -200 ... 4000 m |
| Degree of protection (EN 60529) | IP 65 IP 67 |
| Humidity | 0 ... 100 % |
| Insulation resistance | > 100 MΩ |
| Insulation voltage | 500 V DC |

Output signal

| | |
|-----------------------|---------------------------------------------------------------------------|
| Digital output signal | 1 x pulse / frequency / alarm 2 x pulse / frequency / alarm (optional) |
|-----------------------|---------------------------------------------------------------------------|

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Technical data

Output signal

| | |
|-----------------------------|-------------------------------------------------|
| Analog output (optional) | 0...20 mA 4...20 mA |
| Voltage drop | 1.2 V DC |
| Relays | 2 relays included in the display |
| Load resistance | ≤ 500 Ω, Vs = 18 V DC ≤ 1000 Ω, Vs = 30 V DC |
| Short circuit protection | Yes |
| Reverse polarity protection | Yes |
| Damping | 0.2 ... 1000 s |
| Interface (optional) | Hart |

Housing

| | |
|--------------|--------------------------------------------------|
| Style | FlexHousing, Ø80 mm Bottom process connection |
| Overall size | Refer to section "Dimensional drawings" |
| Material | AISI 304 (1.4301) |

Electrical connection

| | |
|-----------|----------------------------------------------------------------|
| Connector | M12-A, 5-pin, stainless steel M12-A, 8-pin, stainless steel |
|-----------|----------------------------------------------------------------|

Electrical connection

| | |
|-------------|----------------------------------------------------------------------------------------------|
| Cable gland | M16x1.5, plastic M16x1.5, stainless steel M20x1.5, plastic M20x1.5, stainless steel |
|-------------|----------------------------------------------------------------------------------------------|

Power supply

| | |
|-----------------------------|-------------------------------------------------------------|
| Voltage supply range | 18 ... 30 V DC |
| Power consumption | ≤ 5 W |
| Power-up time | ≤ 30 s , standard use ≤ 15 min , warm-up for calibration |
| Reverse polarity protection | Yes |
| Protection class | III |

Compliance and approvals

| | |
|---------|---------------------------|
| EMC | IEC 61326-1 EN 61326-1 |
| Hygiene | 3-A (28-06) |

Operating conditions

| Nominal diameter | Min. measuring span | | Max. measuring span | |
|------------------|------------------------------|--------------------|-----------------------------|-------------------|
| | l/h | gal/h | l/h | gal/h |
| DN3 | 0 ... 10.3 l/h | 0 ... 2.7 gal/h | 0 ... 259 l/h | 0 ... 68 gal/h |
| DN6 | 0 ... 41.4 l/h | 0 ... 10.9 gal/h | 0 ... 1037 l/h | 0 ... 274 gal/h |
| DN10 | 0 ... 115.2 l/h | 0 ... 30.4 gal/h | 0 ... 2880 l/h | 0 ... 761 gal/h |
| DN15 | 0 ... 259.2 l/h | 0 ... 68.5 gal/h | 0 ... 6480 l/h | 0 ... 1712 gal/h |
| DN20 | 0 ... 460.8 l/h | 0 ... 121.7 gal/h | 0 ... 11520 l/h | 0 ... 3043 gal/h |
| DN25 | 0 ... 0.7 m ³ /h | 0 ... 184.9 gal/h | 0 ... 18 m ³ /h | 0 ... 4755 gal/h |
| DN32 | 0 ... 1.2 m ³ /h | 0 ... 317 gal/h | 0 ... 29 m ³ /h | 0 ... 7661 gal/h |
| DN40 | 0 ... 1.9 m ³ /h | 0 ... 501.9 gal/h | 0 ... 46 m ³ /h | 0 ... 12152 gal/h |
| DN50 | 0 ... 2.9 m ³ /h | 0 ... 766.1 gal/h | 0 ... 72 m ³ /h | 0 ... 19020 gal/h |
| DN65 | 0 ... 4.9 m ³ /h | 0 ... 1294.4 gal/h | 0 ... 122 m ³ /h | 0 ... 32229 gal/h |
| DN80 | 0 ... 7.5 m ³ /h | 0 ... 1981.3 gal/h | 0 ... 184 m ³ /h | 0 ... 48608 gal/h |
| DN100 | 0 ... 11.7 m ³ /h | 0 ... 3090.8 gal/h | 0 ... 288 m ³ /h | 0 ... 76082 gal/h |

Note: gal is defined as US liq. gal.

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Display

General information

| | |
|-------------------|--------------------|
| Panel type | FSTN Graphical LCD |
| Display range | -9999 ... 99999 |
| Max. digit height | 22 mm |
| Material | Polycarbonate |

Ambient conditions

| | |
|---------------------------------------|---------------|
| Optimal readability temperature range | -10 ... 70 °C |
| Operating temperature range | -20 ... 80 °C |

Input signal

| | |
|-------------------------------|------------------------------------------------------------------|
| Input signal from transmitter | Digital, 2-way for communication between transmitter and display |
| Update time | ≤ 1 s , max. 0.3 s , typ. |

User configurable data

| | |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Error- / Warning-indication | Individually configurable display and backlight indication in white, green or red colour, steady or flashing light. Configurable limits over the range |
| Measuring unit | µS/cm mS/cm % °C °F m ³ /h m/s l/h cm/s Hz kHz |
| User defined measuring unit | 8 × 20 pixel matrix |

Relays

| | |
|------------------------|------------------------|
| Contacts | 2 x solid state relays |
| Max. load current | 75 mA |
| Max. switching voltage | 60 V |

PF75H (compact, two electrical connections)

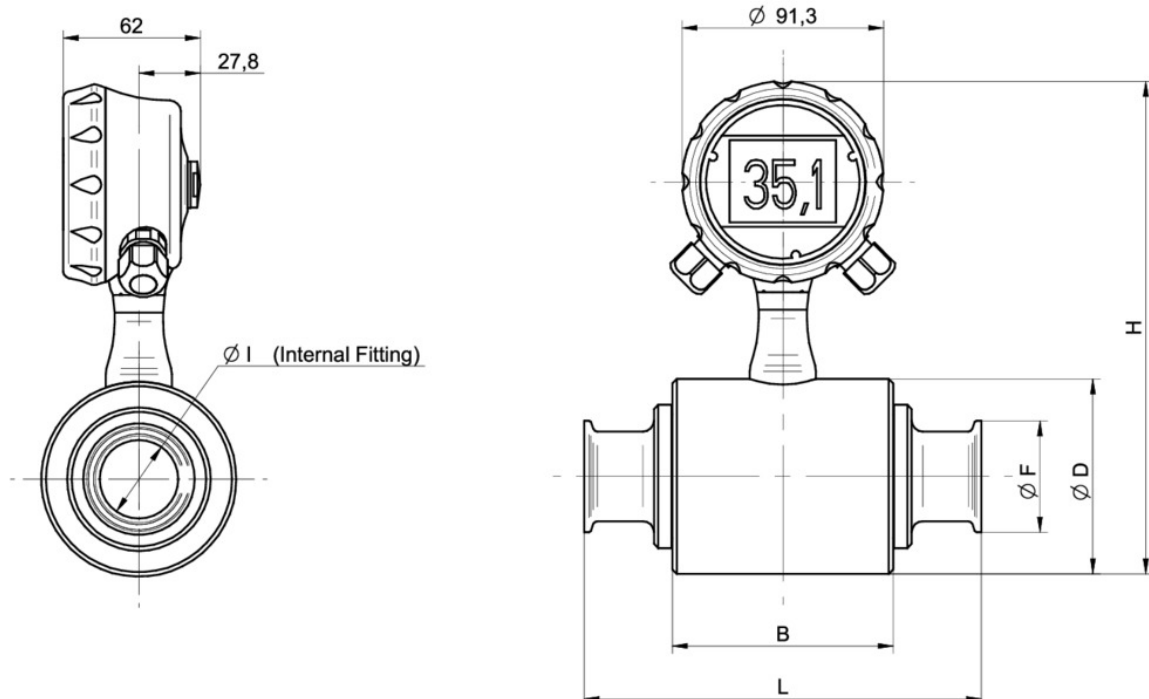
Electromagnetic flow meter for hygienic applications

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Dimensional drawings (mm)

| Nominal diameter | Process connection | I | F | D | H | B | L |
|------------------|----------------------|---------|--------|--------|--------|--------|--------|
| DN3 | ISO 2852 (Tri-Clamp) | 12.7 mm | 34 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN6 | ISO 2852 (Tri-Clamp) | 12.7 mm | 34 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN10 | ISO 2852 (Tri-Clamp) | 12.7 mm | 34 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN15 | ISO 2852 (Tri-Clamp) | 17.2 mm | 34 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN20 | ISO 2852 (Tri-Clamp) | 21.3 mm | 34 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN25 | ISO 2852 (Tri-Clamp) | 22.6 mm | 51 mm | 89 mm | 224 mm | 100 mm | 180 mm |
| DN40 | ISO 2852 (Tri-Clamp) | 35.6 mm | 51 mm | 108 mm | 243 mm | 100 mm | 180 mm |
| DN50 | ISO 2852 (Tri-Clamp) | 48.6 mm | 64 mm | 129 mm | 264 mm | 100 mm | 180 mm |
| DN65 | ISO 2852 (Tri-Clamp) | 60.3 mm | 76 mm | 140 mm | 275 mm | 100 mm | 180 mm |
| DN80 | ISO 2852 (Tri-Clamp) | 72.9 mm | 91 mm | 156 mm | 291 mm | 100 mm | 200 mm |
| DN100 | ISO 2852 (Tri-Clamp) | 97.6 mm | 119 mm | 168 mm | 303 mm | 100 mm | 200 mm |

| Nominal diameter | Process connection | I | F | D | H | B | L |
|------------------|--------------------|----------|--------|--------|--------|--------|--------|
| DN3 | BS 4825-3 | 9.5 mm | 25 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN6 | BS 4825-3 | 9.5 mm | 25 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN10 | BS 4825-3 | 9.5 mm | 25 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN15 | BS 4825-3 | 15.85 mm | 25 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN20 | BS 4825-3 | 22.2 mm | 51 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN25 | BS 4825-3 | 22.2 mm | 51 mm | 89 mm | 211 mm | 100 mm | 180 mm |
| DN40 | BS 4825-3 | 34.9 mm | 51 mm | 106 mm | 224 mm | 100 mm | 180 mm |
| DN50 | BS 4825-3 | 47.6 mm | 64 mm | 129 mm | 249 mm | 100 mm | 180 mm |
| DN65 | BS 4825-3 | 60.3 mm | 76 mm | 140 mm | 275 mm | 100 mm | 180 mm |
| DN80 | BS 4825-3 | 73.0 mm | 91 mm | 156 mm | 275 mm | 100 mm | 200 mm |
| DN100 | BS 4825-3 | 97.6 mm | 119 mm | 168 mm | 303 mm | 100 mm | 200 mm |



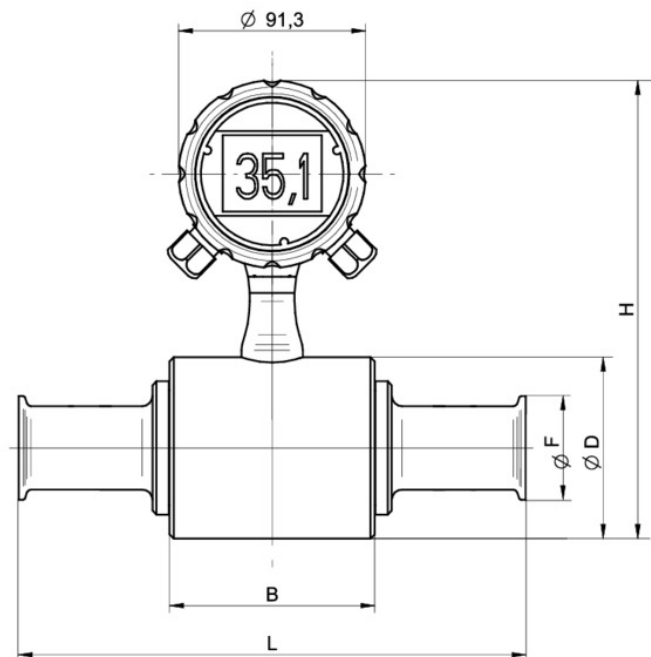
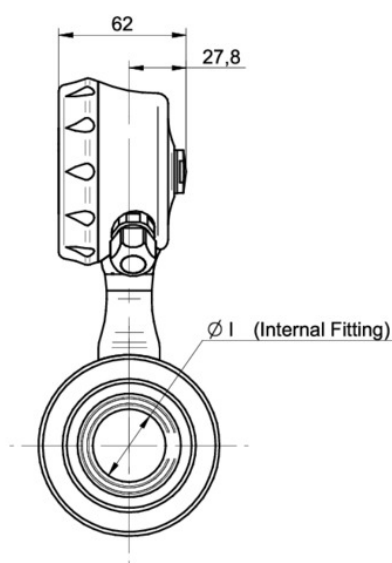
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Dimensional drawings (mm)

| Nominal diameter | Process connection | I | F | D | H | B | L |
|------------------|----------------------|---------|--------|--------|--------|--------|--------|
| DN25 | ISO 2852 (Tri-Clamp) | 22.6 mm | 51 mm | 89 mm | 224 mm | 100 mm | 250 mm |
| DN40 | ISO 2852 (Tri-Clamp) | 35.6 mm | 51 mm | 108 mm | 243 mm | 100 mm | 250 mm |
| DN50 | ISO 2852 (Tri-Clamp) | 48.6 mm | 64 mm | 129 mm | 264 mm | 100 mm | 250 mm |
| DN65 | ISO 2852 (Tri-Clamp) | 60.3 mm | 76 mm | 140 mm | 275 mm | 100 mm | 250 mm |
| DN80 | ISO 2852 (Tri-Clamp) | 72.9 mm | 91 mm | 156 mm | 291 mm | 100 mm | 250 mm |
| DN100 | ISO 2852 (Tri-Clamp) | 97.6 mm | 119 mm | 168 mm | 303 mm | 100 mm | 250 mm |



| Nominal diameter | Process connection | Fitting | E | D | H | B | L |
|------------------|-----------------------------------|---------|--------|--------|--------|--------|--------|
| DN3 | DIN 11851 (dairy pipe connection) | DN10 | 10 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN6 | DIN 11851 (dairy pipe connection) | DN10 | 10 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN10 | DIN 11851 (dairy pipe connection) | DN10 | 10 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN15 | DIN 11851 (dairy pipe connection) | DN15 | 16 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN20 | DIN 11851 (dairy pipe connection) | DN20 | 20 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN25 | DIN 11851 (dairy pipe connection) | DN25 | 26 mm | 89 mm | 211 mm | 100 mm | 180 mm |
| DN32 | DIN 11851 (dairy pipe connection) | DN32 | 32 mm | 89 mm | 224 mm | 100 mm | 180 mm |
| DN40 | DIN 11851 (dairy pipe connection) | DN40 | 38 mm | 106 mm | 224 mm | 100 mm | 180 mm |
| DN50 | DIN 11851 (dairy pipe connection) | DN50 | 50 mm | 129 mm | 249 mm | 100 mm | 180 mm |
| DN65 | DIN 11851 (dairy pipe connection) | DN65 | 66 mm | 140 mm | 275 mm | 100 mm | 180 mm |
| DN80 | DIN 11851 (dairy pipe connection) | DN80 | 81 mm | 156 mm | 275 mm | 100 mm | 200 mm |
| DN100 | DIN 11851 (dairy pipe connection) | DN100 | 100 mm | 168 mm | 303 mm | 100 mm | 200 mm |

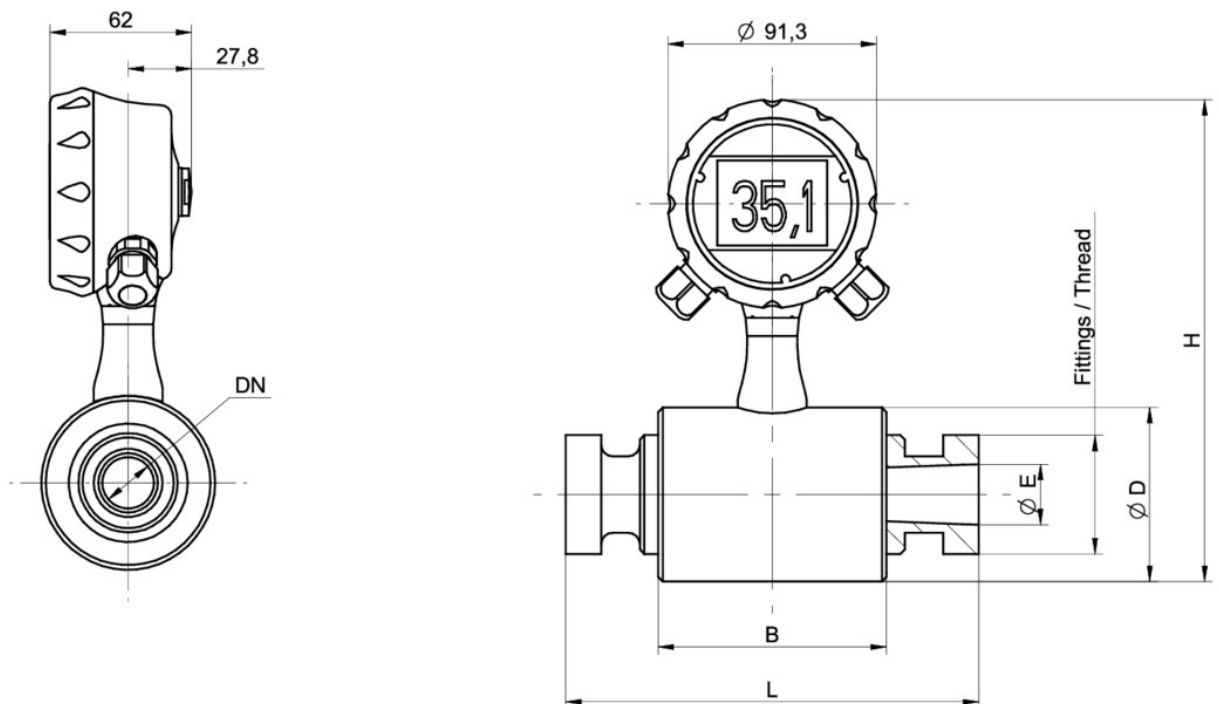
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Dimensional drawings (mm)

| Nominal diameter | Process connection | Fitting | E | D | H | B | L |
|------------------|----------------------|---------|---------|--------|--------|--------|--------|
| DN10 | SMS 1145 male thread | DN25 | 22.6 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN15 | SMS 1145 male thread | DN25 | 22.6 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN20 | SMS 1145 male thread | DN25 | 22.6 mm | 76 mm | 211 mm | 77 mm | 128 mm |
| DN25 | SMS 1145 male thread | DN25 | 22.6 mm | 89 mm | 211 mm | 100 mm | 180 mm |
| DN40 | SMS 1145 male thread | DN38 | 36.8 mm | 106 mm | 224 mm | 100 mm | 180 mm |
| DN50 | SMS 1145 male thread | DN51 | 49.3 mm | 129 mm | 249 mm | 100 mm | 180 mm |
| DN65 | SMS 1145 male thread | DN63 | 58.3 mm | 140 mm | 275 mm | 100 mm | 180 mm |
| DN80 | SMS 1145 male thread | DN76 | 70.7 mm | 156 mm | 275 mm | 100 mm | 200 mm |
| DN100 | SMS 1145 male thread | DN104 | 95.7 mm | 168 mm | 303 mm | 100 mm | 200 mm |



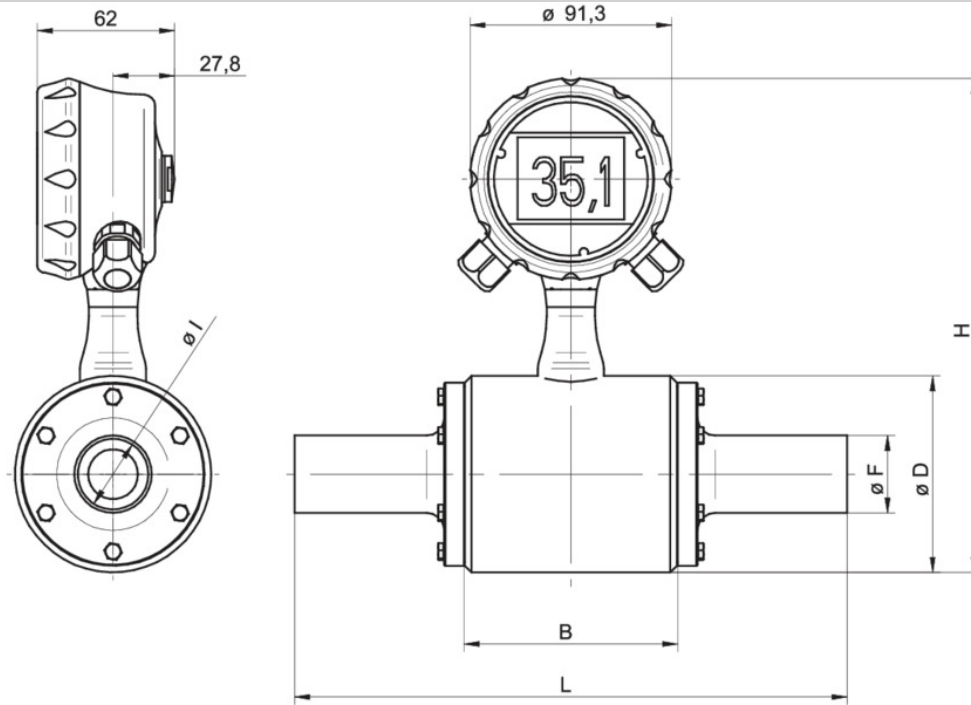
| Nominal diameter | Process connection | I | F | D | H | B | L |
|------------------|-----------------------|----------|--------|--------|--------|--------|--------|
| DN25 | DIN EN 10357 series A | 26.0 mm | 29 mm | 89 mm | 224 mm | 100 mm | 250 mm |
| DN32 | DIN EN 10357 series A | 32.0 mm | 35 mm | 89 mm | 224 mm | 100 mm | 250 mm |
| DN40 | DIN EN 10357 series A | 38.0 mm | 41 mm | 108 mm | 243 mm | 100 mm | 250 mm |
| DN50 | DIN EN 10357 series A | 50.0 mm | 53 mm | 129 mm | 264 mm | 100 mm | 250 mm |
| DN65 | DIN EN 10357 series A | 66.0 mm | 70 mm | 140 mm | 275 mm | 100 mm | 250 mm |
| DN80 | DIN EN 10357 series A | 81.0 mm | 85 mm | 156 mm | 291 mm | 100 mm | 258 mm |
| DN100 | DIN EN 10357 series A | 100.0 mm | 104 mm | 168 mm | 303 mm | 100 mm | 258 mm |

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Dimensional drawings (mm)



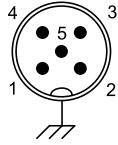
PF75H (compact, two electrical connections)

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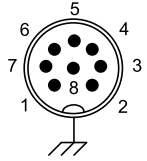
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Electrical connection

M12-A, 5-pin



M12-A, 8-pin



Left side connection (front view): M12-A, 5-pin

| Function | | | Pin assignment |
|------------------------------|----------------|----------------|----------------|
| V _{DC} ⁺ | Power supply + | 18 ... 30 V DC | 1 |
| V _{DC} ⁻ | Power supply - | 18 ... 30 V DC | 3 |
| mA ⁺ | Analog output | 4 ... 20 mA | 2 |
| IO-Link/SW | IO-Link/SW | | 4 |
| GND | Earth | | 5 |

Right side connection (front view): M12-A, 8-pin

| Function (without display) | | | Pin assignment |
|----------------------------|-----------------------|------------|----------------|
| Out 1 | Digital output 1 | Selectable | 1 |
| Out 2 | Digital output 2 | Selectable | 8 |
| In + | Digital input | Selectable | 2 |
| Common Out | Input/output common + | | 7 |
| | | n.c. | 5 |
| | | n.c. | 6 |
| | | n.c. | 3 |
| | | n.c. | 4 |

| Function (with display) | | | Pin assignment |
|-------------------------|-----------------------|------------|----------------|
| Out 1 | Digital output 1 | Selectable | 1 |
| Out 2 | Digital output 2 | Selectable | 8 |
| In + | Digital input | Selectable | 2 |
| Common Out | Input/output common + | | 7 |
| R11 | Relay 1 | | 5 |
| R12 | Relay 1 | | 6 |
| R21 | Relay 2 | | 3 |
| R22 | Relay 2 | | 4 |

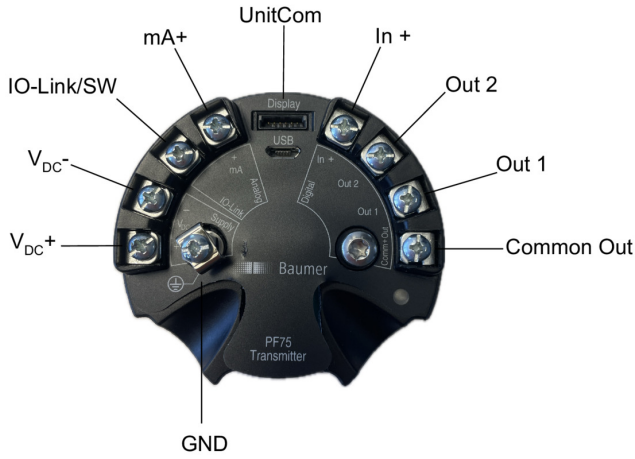
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Electrical connection

Terminal assignment transmitter



Terminal assignment DFON display



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Ordering information

Ordering key - Configuration possibilities see website

| | PF75H | - | 5 | # | # | # | # | # | # | # | 0 | 3 | D | 1 | # | # | 2 | 1 | 1 | 2 | # | 1 | 1 | 0 | # | 0 |
|----------------------------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product | PF75H | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stainless steel 1.4301 / AISI304 | | | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Bottom connection | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. measurement error | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ±0.5 % o.r | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ±0.2 % o.r | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Without display | | | | | | | | | | | | | | | | | | | | | | | | | | |
| With display, with activated relays | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output signal analog | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Without | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 ... 20 mA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output signal digital | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 x Active pulse / frequency output (programmable) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x Active pulse / frequency output (programmable) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interface | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Without | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HART® | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Electrical connection | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x M16x1.5 cable gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x M20x1.5 cable gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 x M12-A, 5-pin + 1 x M12-A, 8-pin | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Material of el. connection | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stainless steel, AISI 304 (1.4301) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Converter version | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compact | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection class | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IP65, IP67 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Process temperature (conti.) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 ... 100 °C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. process pressure | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PN16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal diameter | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN15 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN32 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN40 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN50 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN65 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN80 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN100 | | | | | | | | | | | | | | | | | | | | | | | | | | |

PF75H (compact, two electrical connections)

Electromagnetic flow meter for hygienic applications

PF75H-5#####8#03D1##2112#110#0, PF75H-5#####B#03D1##2112#110#0, PF75H-5#####D#03D1##2112#110#0

Ordering information

Ordering key - Configuration possibilities see website

| | PF75H | - | 5 | # | # | # | # | # | # | 0 | 3 | D | 1 | # | # | 2 | 1 | 1 | 2 | # | 1 | 1 | 0 | # | 0 | | | |
|--------------------------------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|
| Process connection | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIN 11851 (dairy pipe connection) | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| ISO 2852 (Tri-Clamp) | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| BS 4825-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| SMS 1145 male thread | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| DIN EN 10357 series A (DIN 11850-2), weldable pipe end | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Sensor body and process connec | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISI 316L | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Liner material | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PTFE | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Electrodes material | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISI 316L | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Number of electrodes | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Two electrodes | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Surface finish | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ra ≤ 0,8 µm | | | | | | | | | | | | | | | | | | | | | | | | | | | | A |
| Ra ≤ 0,4 µm | | | | | | | | | | | | | | | | | | | | | | | | | | | | C |
| Sealing-/ O-ring material (int | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FKM | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Special approvals | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-A | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Measuring Instr. Directive | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Without | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Calibration certificate | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 point calibration certificate (standard) | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 3 point calibration certificate | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 5 point calibration certificate | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 10 point calibration certificate | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Configuration / Parametrizatio | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Factory settings | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |

(1) The process connection DIN 11851 must be equipped with a special seal either from SKS Komponenten System (SKS) B.V. or Asepto Star k-flex seal from Kieslemann GmbH in order to be hygienic
 (2) SMS 1145 can only be used for COP (Cleaning out of place)

2025-01-10 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.