



OVERVIEW

Operation

The simple and reliable paddlewheel technology has been moved into this new sensor type FMPV, designed for use with very kind of solid-free liquids.

Application

- Pharmaceutical industry
- Chemical processes
- Mechanical engineering
- Waste water treatment equipment
- Water based cooling systems
- Water treatment industry
- Textile sector
- Drinking water and spring water production sector
- Liquid filling machines
- Water distribution processing and manufacturing industry
- Filtration Systems

Features

- Durable and light weight design
- High sensitivity
- Resistant to chemical fluids
- Easy to install
- High accuracy
- Exclusive interior design
- Adjustable pulse output
- Shorter straight pipe



OPERATING DATA

Working Pressure

10 Bar maximum

Temperature Limit

70°C maximum

Accuracy

±1 % of full scale

Repeatability

0.5% of full scale

Minimum Reynolds Number

4500

Enclosure

IP65

IP67 or IP68 on request

MATERIALS

Body

PVC, PP

O-rings

FPM

Rotor

PTFE

Shaft

Ceramic

MEASURING RANGES

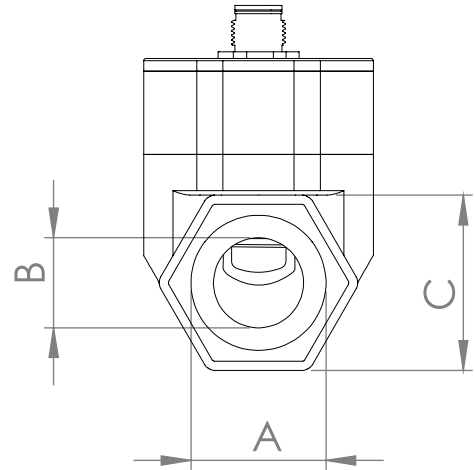
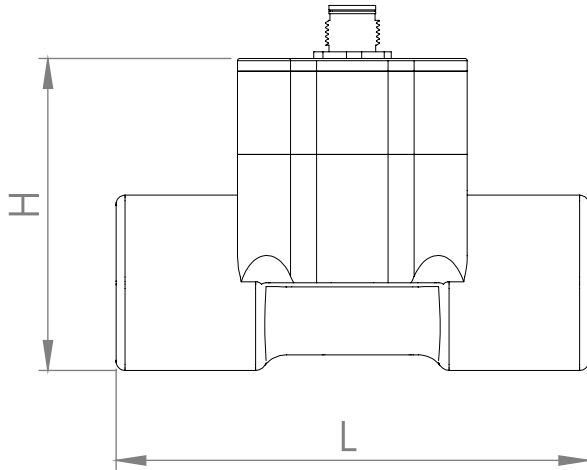
Pipe Size Range

1/2" ... 2"

Flow Rate Range

3l/minimum to 600l/minimum

TECHNICAL DRAWINGS AND DIMENSIONS



Size	A	B	C	H	L
DN15	G 1/2"	10	28	61	89
DN20	G 3/4"	14	32	62	89
DN25	G 1"	20	39	69	105
DN32	G 1 1/4"	25	48	75	129
DN40	G 1 1/2"	32	55	83	129
DN50	G 2"	40	66	92	150

*Unit is mm

FLOW RANGES

Size	Range (l/min)
FMPV.015	3...37
FMPV.020	5...85
FMPV.025	10...150
FMPV.032	15...235
FMPV.040	25...387
FMPV.050	40...600

ELECTRICAL DATA

Signal Output

Pulse (push-pull)
4...20 mA or 0...10 V DC on request

Power Supply

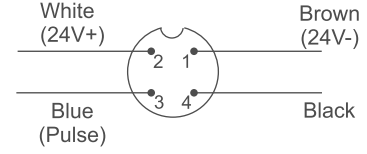
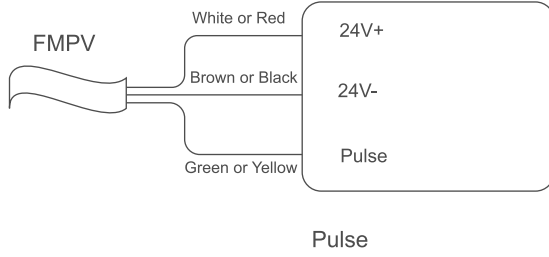
24±10% V DC, regulated

Electrical Connection

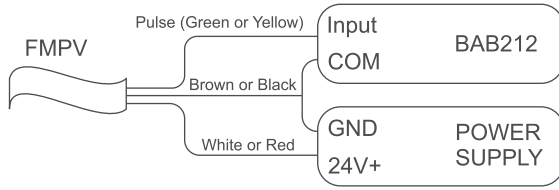
1 m cable
M12 connector or DIN43650A socket on request



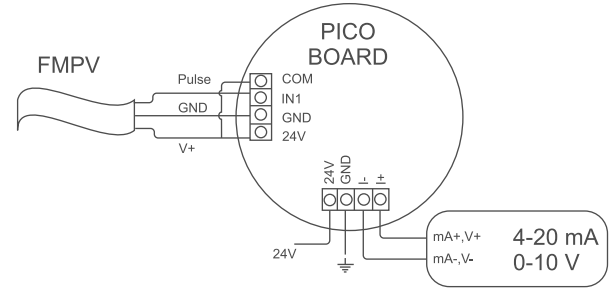
WIRING



With M12 Connector



With BAB212



Sensor and PICO Board Connection

OPTIONS ELECTRONIC

■BAB212



OPTIONS ELECTRONIC

BAB 212

Parameter	Specification
Selectable Inputs	4-20 mA, 0-10VDC, 0-5VDC, Pulse (PNP, NPN)
Operating Media	Liquids
Selectable Outputs	4-20 mA, 0-10VDC and Pulse
Communication	RS485-MODBUS (HART on request)
Analog Input Resolution	10 bit
Digital Input Speed	10 KHz, max
Digital Output Speed	50 Hz max
Display TFT,	4.3" 480x272 pixel resistive touchscreen
Humidity	%10...85 non-condensate
Power Supply	24 VDC, $\pm\%10$
Power Consumption	3 W
Dimensions	144 x 144 mm (front), 134 x 134 mm (rear), depth 100 mm
Enclosure	IP65 (front), IP66, IP67 on request



ORDERING

Model	
FMPV	Paddle Wheel Flow Sensor

Connection Size	
015	G 1/2"
020	G 3/4"
025	G 1"
032	G 1 1/4"
040	G 1 1/2"
050	G 2"

Body	
01	PVC
02	PP

Output	
01	Pulse
02	4...20 mA
03	0-10 VDC

Output	
N	None
B	BAB212 (remote)

