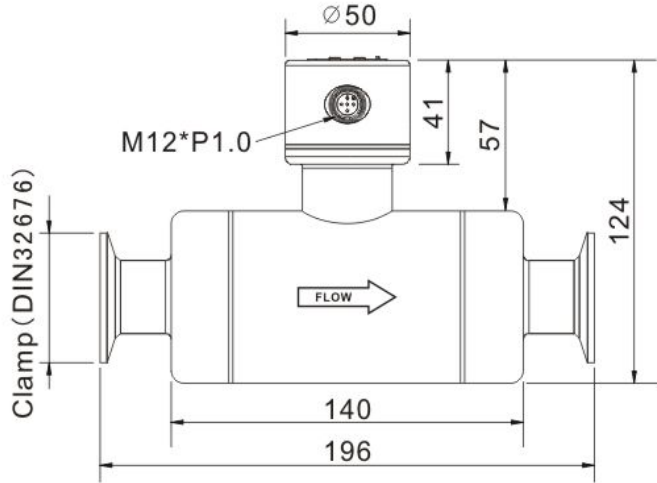
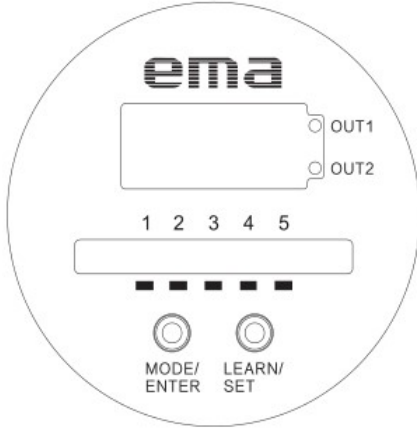
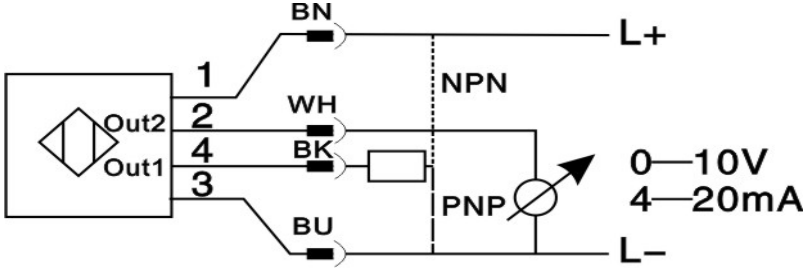


|                                                                                                                                                                                                                                                                                         |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <p>FM0025AS1</p> <p>Ultrasonic Flowmeter</p> <p>Process connection: DN25</p> <p>Clamp DIN 32676</p> <p>Cable entrance: M12 Connector</p> <p>Sensing range: 1.5...250 L/min</p> <p>Programmable</p> <p>Dual output:</p> <p>Switching output + Analogue output</p> <p>3 digit display</p> |  |
| Applications                                                                                                                                                                                                                                                                            | Conductive and non-conductive liquids, such as water and oil                       |
| Panel Display                                                                                                                                                                                                                                                                           | 3 digital segment + 7×LED                                                          |
| Display Functions                                                                                                                                                                                                                                                                       | The flow/analogue/temperature display can be switched via the buttons              |
| Menu setting                                                                                                                                                                                                                                                                            | 2 Buttons                                                                          |
| Operating Voltage[V]                                                                                                                                                                                                                                                                    | 20...30 DC                                                                         |
| Range[L/min]                                                                                                                                                                                                                                                                            | 1.5...250                                                                          |
| Probe frequency[MHz]                                                                                                                                                                                                                                                                    | 1                                                                                  |
| Voltage drop[V]                                                                                                                                                                                                                                                                         | <3.5                                                                               |
| Reverse polarity protection                                                                                                                                                                                                                                                             | Yes                                                                                |
| Overload protection                                                                                                                                                                                                                                                                     | Yes                                                                                |
| Temperature compensation                                                                                                                                                                                                                                                                | Yes                                                                                |
| Watchdog                                                                                                                                                                                                                                                                                | Yes                                                                                |
| Current consumption[mA]                                                                                                                                                                                                                                                                 | <20                                                                                |
| Accuracy / Deviation[%]                                                                                                                                                                                                                                                                 | 0.5                                                                                |
| Minimum Resolution[mm]                                                                                                                                                                                                                                                                  | 0.03                                                                               |
| Output response time[s]                                                                                                                                                                                                                                                                 | 5                                                                                  |
| Output                                                                                                                                                                                                                                                                                  | Output1: PNP/NPN, Output2: 4...20mA/0...10V                                        |
| Overload of Analogue output[ohm]                                                                                                                                                                                                                                                        | 4...20mA, Max (U <sub>b</sub> -10V)*50                                             |
| Overload of switching output[mA]                                                                                                                                                                                                                                                        | 400                                                                                |
| Electric design                                                                                                                                                                                                                                                                         | NO/ NC adjustable                                                                  |
|                                                                                                                                                                                                                                                                                         | PNP/NPN adjustable                                                                 |
|                                                                                                                                                                                                                                                                                         | SP/RP adjustable                                                                   |
| Operating temperature[°C/°F]                                                                                                                                                                                                                                                            | 0...80/32...176                                                                    |
| Storage temperature[°C/°F]                                                                                                                                                                                                                                                              | -20...80/-4...176                                                                  |
| Resistance [MΩ]                                                                                                                                                                                                                                                                         | >100(500 VDC)                                                                      |
| ESD[KV]                                                                                                                                                                                                                                                                                 | III 6kV                                                                            |

|                             |                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|
| EFT[KV]                     | III 2kV                                                                              |
| Walkie talkie experiment[M] | 0.1                                                                                  |
| Pipe diameter               | DN25                                                                                 |
| Operating pressure[bar]     | <40                                                                                  |
| Housing material            | Stainless steel 316L                                                                 |
| Ultrasonic probe material   | PPS                                                                                  |
| Process connection          | DN25 clamp DIN 32676                                                                 |
| Weight[kg]                  | 3                                                                                    |
| Shock resistance[g]         | 20                                                                                   |
| Protection/Enclosure Rating | IP68 / IP69K                                                                         |
| Dimensions[mm]              |   |
| Display                     |  |
| Wiring<br>Core color        |  |