



### Main

|                           |                             |
|---------------------------|-----------------------------|
| Range of product          | Advantys                    |
| Product or component type | Direct connection interface |
| Range compatibility       | AS-Interface cabling system |
| AS-i version              | V2.1                        |
| Addressing                | Extended A/B                |
| Enclosure type            | Compact                     |
| Width                     | 45 mm                       |
| Number of addresses       | <= 62                       |
| Number of inputs          | 4                           |

### Complementary

|                             |                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height                      | 116.5 mm for connection base ASI67FFB02<br>80 mm for connection base ASI67FFB01                                                                                                       |
| Depth                       | 37.5 mm for connection base ASI67FFB02<br>42 mm for connection base ASI67FFB01                                                                                                        |
| [Us] rated supply voltage   | 26.5...31.6 V for AS-Interface line                                                                                                                                                   |
| Reverse polarity protection | Integrated                                                                                                                                                                            |
| Current consumption         | <= 45 mA AS-Interface line without sensor supply                                                                                                                                      |
| AS-i profile                | 0A70                                                                                                                                                                                  |
| Output fallback position    | OFF in the absence of communication                                                                                                                                                   |
| Parameter bits              | Not used                                                                                                                                                                              |
| Electrical connection       | 4 female connectors M12 standard for sensor<br>1 jack connector<br>1 IDC for auxiliary supply<br>1 IDC for AS-Interface line                                                          |
| Supply                      | Via AS-Interface line for sensor side                                                                                                                                                 |
| Input compatibility         | 2 or 3-wire PNP conforming to EN/IEC 61131-2 type 2                                                                                                                                   |
| Sensor power supply         | 18...30 V conforming to EN/IEC 60947-5-1                                                                                                                                              |
| Supply current for sensors  | <= 200 mA at < 40 °C, protection type: overload and short-circuit protection<br><= 150 mA at 40...70 °C, protection type: overload and short-circuit protection                       |
| Voltage state1 guaranteed   | > 11 V (sensor side)                                                                                                                                                                  |
| Current state 1 guaranteed  | > 6 mA (sensor side)                                                                                                                                                                  |
| Voltage state 0 guaranteed  | < 5 V (sensor side)                                                                                                                                                                   |
| Current state 0 guaranteed  | < 2 mA (sensor side)                                                                                                                                                                  |
| Input current               | 8 mA                                                                                                                                                                                  |
| Installation category       | II conforming to IEC 60664                                                                                                                                                            |
| Surge withstand             | 2 kV at 12 Ohm (common mode) conforming to EN/IEC 61000-4-5<br>1 kV at 2 Ohm (differential mode) conforming to EN/IEC 61000-4-5                                                       |
| Fixing mode                 | Clip-on, mounting on 35 mm symmetrical rail conforming to EN/IEC 60715<br>By 2 or 3 screws M4                                                                                         |
| Tightening torque           | 0.6 N.m                                                                                                                                                                               |
| Material                    | Stainless steel                                                                                                                                                                       |
| Housing material            | PBT 30 % GF Valox 553                                                                                                                                                                 |
| Local signalling            | 4 LEDs yellow, function: input status<br>1 LED red, function: fault<br>1 LED green, function: auxiliary supply ON (AUX PWR)<br>1 LED green, function: AS-Interface power ON (ASI PWR) |
| Product weight              | 0.09 kg                                                                                                                                                                               |

## Environment

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications                                                  | AS-Interface No 55001<br>CSA<br>UL                                                                                                                                                                                                                                                                                                                             |
| Ambient air temperature for operation                                   | -25...70 °C conforming to EN/IEC 60529                                                                                                                                                                                                                                                                                                                         |
| Ambient air temperature for storage                                     | -40...85 °C                                                                                                                                                                                                                                                                                                                                                    |
| IP degree of protection                                                 | IP67 conforming to IEC 60529<br>IP54 for use as tap-off or at line end conforming to IEC 60529                                                                                                                                                                                                                                                                 |
| Shock resistance                                                        | 30 gn for 11 ms conforming to IEC 60068-2-27                                                                                                                                                                                                                                                                                                                   |
| Vibration resistance                                                    | 5 gn (f = 36...150 Hz) conforming to EN/IEC 60068-2-6<br>0.7 gn (f = 13.2...100 Hz) conforming to GL<br>+/-1 mm (f = 2...36 Hz) conforming to EN/IEC 60068-2-6<br>+/-1 mm (f = 2...13.2 Hz) conforming to GL                                                                                                                                                   |
| Dielectric test voltage                                                 | 0.5 kV between inputs and outputs for 1 minute conforming to EN/IEC 60664-1<br>0.5 kV between inputs and auxiliary supply for 1 minute conforming to EN/IEC 60664-1<br>0.5 kV between auxiliary supply and AS-Interface line for 1 minute conforming to EN/IEC 60664-1<br>2 kV between outputs and AS-Interface line for 1 minute conforming to EN/IEC 60664-1 |
| Resistance to electrostatic discharge                                   | 8 kV conforming to EN/IEC 61000-4-2 level 3                                                                                                                                                                                                                                                                                                                    |
| Resistance to radiated fields                                           | 10 V/m conforming to EN/IEC 61000-4-3 level 3                                                                                                                                                                                                                                                                                                                  |
| Resistance to conducted disturbances, induced by radio frequency fields | 3 V conforming to EN/IEC 61000-4-6                                                                                                                                                                                                                                                                                                                             |
| Resistance to fast transients                                           | 2 kV conforming to EN/IEC 60100-4-4 level 3                                                                                                                                                                                                                                                                                                                    |
| Pollution degree                                                        | 3 conforming to EN/IEC 60604-4-1                                                                                                                                                                                                                                                                                                                               |
| Fire resistance                                                         | At 750 °C, extinction time: < 30 s conforming to EN/IEC 60695-2-11                                                                                                                                                                                                                                                                                             |