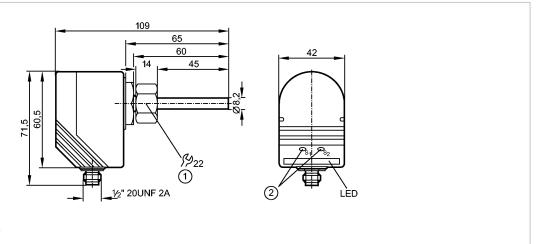
efectoraco

SI1006



SID10ADBFKOW/LS-100-IRF

Flow sensors



1: internal thread M18 x 1.5 2: setting pushbuttons



| Droduct | oboroot | oriotico |
|---------|---------|----------|
| Product | cnaraci | eristics |

Max. temperature gradient of

medium

Reaction times

Power-on delay time

[K/min]

[s]

| Product characteristics | | | | |
|------------------------------------|---------------------------------------|----------------------|--|--|
| Flow monitor | | | | |
| Compact type for adapter | | | | |
| Process connection: internal | thread M2 | 18 x 1.5 for adapter | | |
| Probe length: 45 mm | | | | |
| 1 relay output | | | | |
| Setting range: 3300 cm/s (liquids) | | | | |
| Application | | | | |
| Application | | liquids and gases | | |
| Pressure rating | [bar] | 300 | | |
| Medium temperature | [°C] | -2580 | | |
| Electrical data | | | | |
| Electrical design | | AC / relay | | |
| Operating voltage | [V] | 85265 AC | | |
| Nominal voltage | [V] | 90240 AC (4565 Hz) | | |
| Voltage tolerance | [%] | -5 / +10 | | |
| Power consumption | [VA] | < 3.5 | | |
| Protection class | | <u> </u> | | |
| Reverse polarity protection | | no | | |
| Outputs | | | | |
| Output function | · · · · · · · · · · · · · · · · · · · | | | |
| Contact rating | <u> </u> | | | |
| Short-circuit proof | <u> </u> | | | |
| Overload protection | | no | | |
| Measuring / setting range | | | | |
| Liquids | | | | |
| Setting range | [cm/s] | 3300 | | |
| Greatest sensitivity | [cm/s] | 360 | | |
| Gases | F/-3 | 200 2000 | | |
| Setting range | [cm/s] | 2003000 | | |
| Greatest sensitivity | [cm/s] | 200800 | | |
| Accuracy / deviations | . 1 | 1 | | |

300

15 **)

SI1006 - Flow monitor - eclass: 27273101 / 27-27-31-01

| Software / programming Adjustment of the switch point Environment Ambient temperature [°C] Protection Tests / approvals Shock resistance Vibration resistance MTTF [Years] Mechanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [kg] Display / operating elements Function display LED Electrical connection Wiring N.B. no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks Remarks Inc. = not connected Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Pack quantity [piece] Pack quantity [piece] | Response time | [s] | 110 | |
|--|-------------------------------|---------|--|--|
| Environment Ambient temperature [°C] Protection Tests / approvals Shock resistance Vibration resistance MTTF [Years] Mechanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [kg] Displays / operating elements Function display Electrical connection Wiring N.B: no protective insulation between relay circuit and supply voltage N.B: no protective insulation between relay circuit and supply voltage N.B: no protective insulation setween relay circuit and supply voltage N.C. = not connected 1.C. = not connected 1. number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Software / programming | | | |
| Ambient temperature [°C] Protection Tests / approvals Shock resistance Vibration resistance Vibration resistance MTTF [Years] Mechanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [Rg] Displays / operating elements Function display LED Electrical connection Wiring N.B.: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, \$\leq 5 \times A (test acting)\$ Note: miniature fuse to IEC60127-2 sheet 1, \$\leq 5 \times A (test acting)\$ Remarks Remarks Inc. = not connected 1) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | | nt | pushbuttons | |
| Protection Tests / approvals Shock resistance Vibration resistance Vibration resistance MTTF [Years] Mchanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [kg] Displays / operating elements Function display LED Electrical connection Connection Wiring N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) N.C: = not connected 1) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Environment | | | |
| Tests / approvals Shock resistance Vibration resistance MTTF [Years] Mechanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [kg] Displays / operating elements Function display Electrical connection Connection Wirring N.B. no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, \$\leq 5 \text{ A (fast acting)}\$ Note: miniature fuse to IEC60127-2 sheet 1, \$\leq 5 \text{ A (fast acting)}\$ Note: miniature occluded a Note of the connected switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Ambient temperature | [°C] | -2580 | |
| Shock resistance Vibration resistance MTTF [Years] Mechanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [kg] Displays / operating elements Function display LED Electrical connection Wiring N.B.: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, \$\leq 5 \text{ A (fast acting)}\$ Note: miniature fuse to IEC60127-2 sheet 1, \$\leq 5 \text{ A (fast acting)}\$ Remarks Remark | | | IP 67 | |
| Vibration resistance MTTF [Years] MEChanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [kg] Displays / operating elements Function display Electrical connection Wiring N.B.: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks Remarks Remarks Remarks IDIN EN 60068-2-6 20 g (552000 Hz) 224 Materials (wetted parts) Internal thread M18 x 1.5 for adapter stainless steel 316L / 1.4404; O-ring: FKM 8 x 1.5 gr 80° Shore A 45 Wishing 10 LEDs, three-colour 1/2" UNF-Connector Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks n.c. = not connected 1) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work ") optically indicated Recommendation: check the unit for reliable function after a short circuit. | • • | | | |
| MTTF [Years] Mechanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [kg] Displays / operating elements Function display LED Electrical connection N.B. no protective insulation between relay circuit and supply voltage N.B. no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks | Shock resistance | | · , | |
| Mechanical data Process connection Materials (wetted parts) Housing materials Probe length L [mm] Weight [kg] Displays / operating elements Function display Electrical connection Connection Wiring N.B. no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, \$\leq 5 \text{ A (fast acting)}\$ Remarks Remarks Remarks n.c. = not connected 1) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Vibration resistance | | DIN EN 60068-2-6 20 g (552000 Hz) | |
| Process connection Internal thread M18 x 1.5 for adapter | MTTF | [Years] | 224 | |
| Materials (wetted parts) Housing materials Imm Probe length L [mm] Weight [kg] Displays / operating elements 0.28 Function display LED Electrical connection 10 LEDs, three-colour Connection 1/2" UNF-Connector Wiring N.B. no protective insulation between relay circuit and supply voltage N.B. no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks n.c. = not connected 1) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work ") optically indicated Recommendation: check the unit for reliable function after a short circuit. | Mechanical data | | | |
| Housing materials Probe length L [mm] Weight [kg] Displays / operating elements Function display Electrical connection Connection Wiring N.B. no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks Remarks n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Process connection | | internal thread M18 x 1.5 for adapter | |
| Probe length L [mm] Weight [kg] Displays / operating elements Function display Electrical connection Connection Wiring N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks | Materials (wetted parts) | | stainless steel 316L / 1.4404; O-ring: FKM 8 x 1.5 gr 80° Shore A | |
| Weight [kg] 0.28 Displays / operating elements Function display LED 10 LEDs, three-colour Electrical connection Connection Wiring N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Housing materials | | PBT-GF 20 | |
| Displays / operating elements Function display Electrical connection Connection Wiring N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks | Probe length L | [mm] | 45 | |
| Displays / operating elements Function display Electrical connection Connection Wiring N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks Remarks Remarks n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Weight | [kg] | | |
| Electrical connection Connection Wiring N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, 5 A (fast acting) Remarks Remarks Remarks n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Displays / operating elements | | | |
| Connection Wiring N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, | Function display | LED | 10 LEDs, three-colour | |
| N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks Remarks n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Electrical connection | | | |
| N.B: no protective insulation between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Connection | | 1/2" UNF-Connector | |
| between relay circuit and supply voltage Note: miniature fuse to IEC60127-2 sheet 1, ≤ 5 A (fast acting) Remarks Remarks n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | Wiring | | | |
| Emarks Remarks n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | between relay circuit | 2 3 | | |
| n.c. = not connected ¹) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | | | | |
| 1) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short circuit. | | 1 | | |
| | Remarks | | 1) number of switching cycles: 20 million mechanically switching cycles with 3 A load: 100.000 electrically relay type: contact closed at work **) optically indicated Recommendation: check the unit for reliable function after a short | |
| | Pack quantity | [piece] | | |

Pack quantity [piece] 1

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — SI1006 — 10.07.2013 replaced by: SI5006