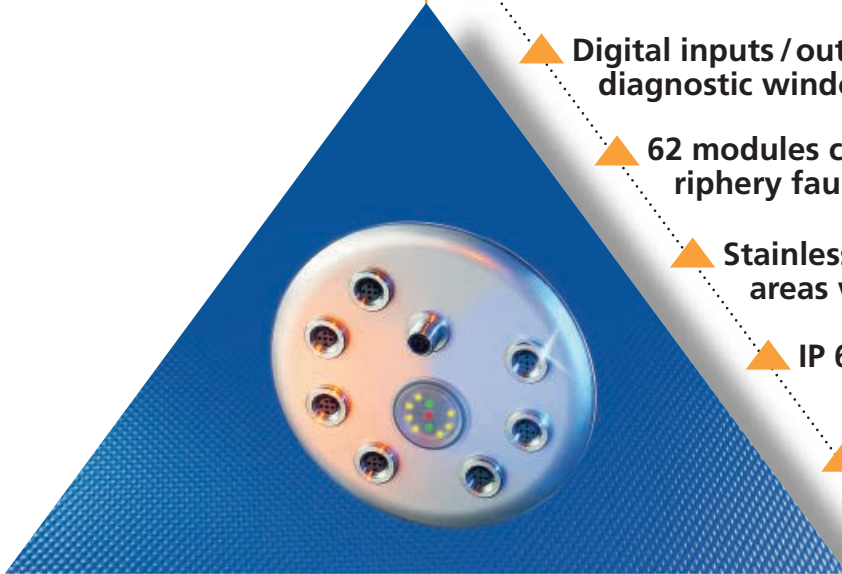


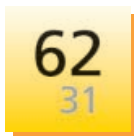
AS-i ProcessLine: Stainless steel modules with protection rating IP 69K.

Consistent wiring solution: sensors, connection cables and I/O modules.



- ▲ Digital inputs / outputs, robust M12 sockets, diagnostic window with clearly visible status LEDs.
- ▲ 62 modules connectable per AS-i network, periphery fault/communication error indication.
- ▲ Stainless steel housing for use in hygienic areas with cleaning requirements.
- ▲ IP 68 and IP 69K protection ratings.
- ▲ AS-i and 24 V supply via a common M12 connector.

Networking and control



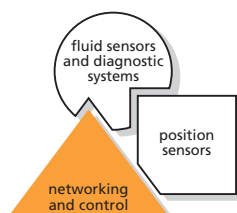
Introduction

The new ProcessLine modules have been developed due to special requirements for areas with extreme cleaning conditions. Due to the requirement for hygiene and cleaning, stainless steel control cabinets have so far been used in the plant because directly usable field modules were not available. This caused additional cost for construction, mounting and installation. Here the ProcessLine series is an optimum choice as a direct field module for use in the production process with an increased environmental requirement due to high-pressure cleaning. Bacteria cannot attack the hygienically designed housing with all edges being rounded.

With the inclined base the ProcessLine module can be fixed so that no drops can form on the upper side. All process connections are brought out via M12 connectors and are sealed using special O-rings.

Advantages

- Mounting directly in wet areas
- Easy cleaning, no dead space, no deposit of soiling
- Food-grade high-grade stainless steel housing
- Easy wiring and set-up
- 62 modules at one bus cable
- Status LEDs for local diagnosis
- Diagnosis via AS-i master / plc
- Quick mounting with only one screw
- Quick replacement if servicing is required



Industrial communication

Advantages and customer's benefits

• Innovative design

Using state-of-the-art production technologies we have managed to incorporate the latest AS-i technology in an extremely space-saving housing. This round housing has been intentionally designed without corners and edges, reducing deposits of soiling and is easy to clean all round.

• Additional diagnosis

Due to a combined periphery fault and communication error LED at the module the user is provided with two important signals during set-up and operation. A permanent "red" light signals a communication error, e.g. if the address is still set to "0". "Flashing red" indicates overload of the connected actuators. This information can be evaluated by the AS-i 2.1 master at any time.

• Set-up

The ProcessLine modules can be addressed before mounting using the addressing unit via the M12 connector without voltage being applied. Addresses in the range 1A...31A and 1B...31B can be assigned. Another addressing option is online, via the AS-i controller_e family. With the integrated display the modules can be addressed manually or automatically in the "Easy Start-up" operating mode.

All these features facilitate mounting, set-up and maintenance for the user and increase uptime of the whole AS-interface system.

Application

The AS-i ProcessLine modules can be used in a wide range of different applications. In particular in process installations with many valves and drives at a restricted space cost saving is achieved with easy bus wiring. Thanks to the high protection rating and direct mounting in the application the mounting times compared to conventional control cabinets are shorter.

Possible target industries:

- Food production, breweries, dairies
- Pharmaceutical industry
- Chemical and process industries
- Processing industry
- Primary industry

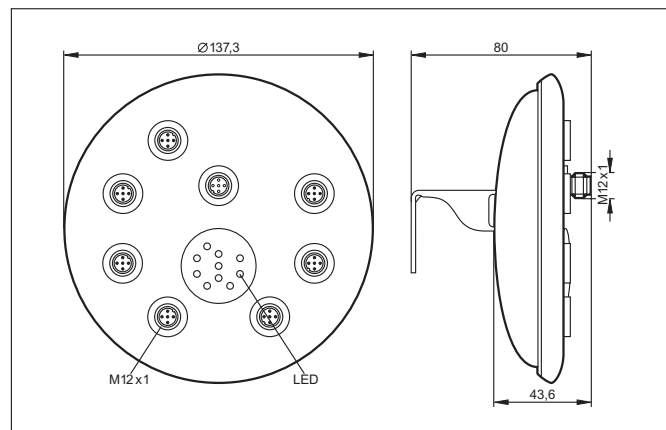
Technical data (extract)

| ProcessLine module (AC2904) | |
|-----------------------------------------|----------------------------|
| Digital inputs | 4 |
| Power supply for all inputs [mA] | 200 |
| Digital outputs | 3 |
| Output current per channel typ. [mA] | 700 |
| Output current max. [A] | 2.1 |
| Short-circuit / overl. protection | • |
| Total current consumption [mA] via AS-i | < 260 |
| Operating temperature [°C] | -5...80 |
| Protection rating | IP 69K |
| Indication AS-i / 24 V voltage LED | green |
| Indication periphery fault LED | red |
| Indication communication error LED | red |
| Indication switching status LED | yellow |
| Housing material | high-grade stainless steel |
| AS-i profile | S-7.A.E |

Products

| Designation | Order no. |
|--------------------------------------------------------------------------------|-----------|
| ProcessLine 4 DI 3 DO T, A/B slave | AC2904 |
| Addressing unit for version 2.1 | AC1144 |
| Addressing cable M12 - M12, 2 m | E11404 |
| Connection cable M12 - M12, high-grade stainless steel, IP 69K, 1 m | E11642 |
| Connection cable M12 - M12, high-grade stainless steel, IP 69K, 2 m | E11643 |
| Inductive sensors efector _m M12, high-grade stainless steel, IP 69K | IFT200 |
| Inductive sensors efector _m M18, high-grade stainless steel, IP 69K | IGT200 |
| Inductive sensors efector _m M30, high-grade stainless steel, IP 69K | IIT202 |

Dimensions (AC2904)



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Networking and control

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