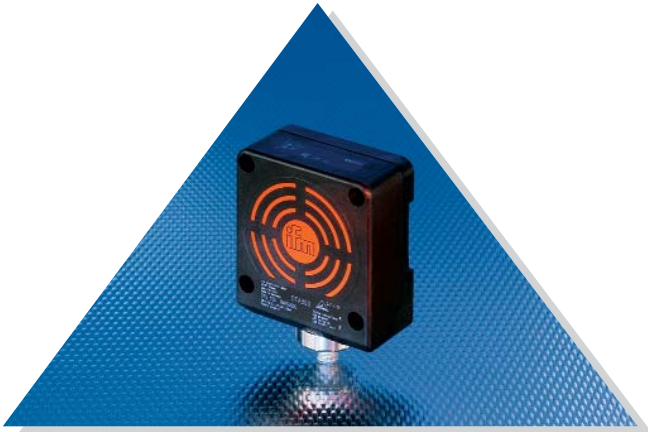


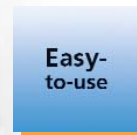


RFID and AS-i – a strong team for identification.



The RFID system for ranges up to 100 mm.

- ▲ Inductive identification system in 125 kHz technology.
- ▲ RFID for assembly / conveying technology and handling automation.
- ▲ Cost reduction due to quick and easy set-up.
- ▲ Increased write / read distances.
- ▲ High reading reliability for compact design.



Safety and cost saving in RF identification

DTA300 with increased write/read distances solves your applications in assembly/conveying technology and handling automation.

DTA300 can be integrated into AS-i networks in no time and is ready for operation immediately. In addition to the lower cost for hardware, this also saves time during set-up.

Benefit from the unique selling proposition of ifm sensors: quick and easy to mount with absolute safety.



fluid sensors and diagnostic systems

position sensors and object recognition


bus, identification and control systems

Applications:
Production control in assembly and conveying technology.

Features of the DTA300

- **Operating frequency**
125 kHz
- **Nominal voltage range**
Supply from AS-i 26.5 ... 31.6 V
Current rating 50 mA
- **Operating modes**
Read: static and dynamic
- **Passing speed**
Read: max. 0.5 m/s
- **Distance between DTA300 and ID tag**
depending on the ID tag used
- **Indications**
LED green: operating voltage
LED yellow: ID tag detected
LED red: AS-i error
- **Housing**
Material: PPE
Dimensions (H x W x D) approx. 92 x 80 x 40 mm
- **Ambient temperature**
Operating temperature -20...50 °C
Storage temperature -25 ...80 °C
- **Protection**
IP 67, class III
- **Connection**
M12 connector

Accessories

Type	Description	Order no.
	Mounting set Clamp mounting, angled	E11121
	Mounting set Clamp mounting, straight	E11122
	Mounting bracket with integrated snap-on rail	E10730

ID tags

Type	Description	Order no.
	ID tag M5 x 16.5 mm, screw mounting	E80301
	Tag fixture for workpiece carriers with ID tag	E80302
	ID tag M18 x 1 mm, screw mounting	E80311
	ID tag diameter 12 x 2 mm	E80312
	ID tag diameter 20 x 2.15 mm	E80317
	ID tag diameter 30 x 2.15 mm	E80318
	ID tag diameter 50 x 2.2 mm	E80319
	ID tag ISO-CARD	E80320



Functions

The ID tags are mounted on the objects to be identified (tanks, goods or workpiece carriers). When they come into the detection range of the read/write heads (read/write module), the information is read at up to 0.5 m/s. The data transfer is controlled by the AS-i control level (master, controller, gateway, host). The read/write head is operated as an analogue slave according to profile 7.4 in the AS-i network, which means that up to 31 slaves can be controlled by one master.

The transmission of energy between the passive ID tag and the read/write head is based on the physical principle of inductive coupling with a frequency of 125 kHz.

The compact read/write head includes, in addition to the antenna, the complete evaluation and the interface to AS-i, so that the units can be directly operated in the AS-interface network and so that the transmission of data to the controller is possible.

Connectors and splitter boxes

Type	Description	Order no.
	M12 jumper, 0.6 m black, PUR cable	EVC011
	M12 jumper, 2 m black, PUR cable	EVC013