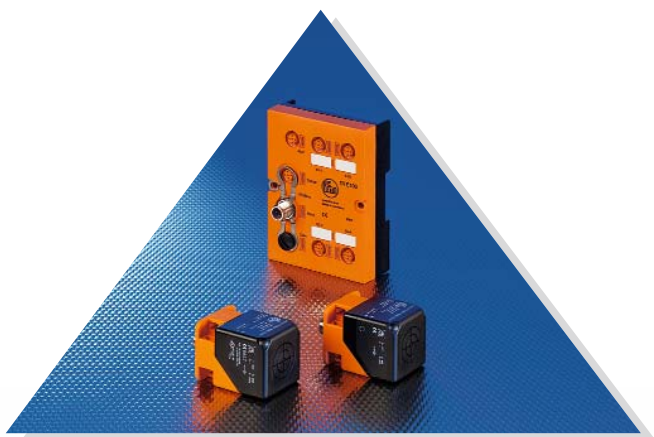


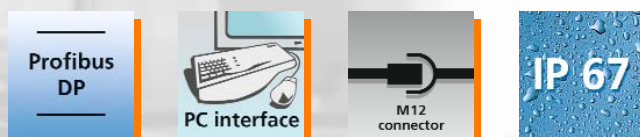


RFID with Profibus-DP for production and conveying.



Flexible RFID system with evaluation unit, antennas and transponders.

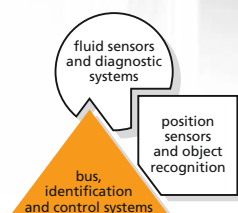
- ▲ RFID evaluation unit with Profibus-DP and web server.
- ▲ Evaluation unit with 4 antenna connections or digital I/Os.
- ▲ Read/write antennas in industrially compatible housing.
- ▲ Antennas and transponders from a few bits to Kbytes.
- ▲ Protection rating IP 67 meets the requirements for harsh environments.



The new RFID evaluation unit with integrated Profibus-DP interface and web server can be used in production to mark tools, for quality assurance such as monitoring production steps, in conveying and in automation technology. Easy to use – flexible parameter setting – you can solve any identification task.

The antenna concept guarantees easy and fast connection of the LF and HF RFID antennas to the evaluation unit by means of M12 connectors from 0.3...20 m from ifm electronic.

The production range of the transponders includes not only LF transponders with up to 2 Kbit-memory but also HF transponders with 16 Kbits as FRAM version which can be rewritten an unlimited number of times.



Applications

The new ifm RFID system platform can be used in production for quality assurance such as for electronic route cards, in assembly/handling technology for the automotive industry and in conveying.

The RFID system is optimised for applications in

- production control
- asset management
- material flow control
- track&trace

All connections have industrial-compatible M12 connections. Current is supplied directly via an M12 connection.




The fast and easy integration into the higher-level automation/process control is effected by means of provided program examples. Complex identification tasks are as easy to implement as reading a simple UID.

As an option the RFID antenna inputs can also be used for controlling outputs or detecting input signals. The ifm standard configuration ensures that no complex wiring is necessary. The connected sensors/actuators are supplied directly from the RFID evaluation unit.

The RFID system features a robust housing in the high protection rating IP 67 and a broad temperature range thus meeting the requirements of harsh industrial environments.

The comprehensive accessories such as Profibus connection cables and terminating resistors further facilitate the system set-up.

Connectors and splitter boxes



Type	Description	Order no.
	M12 jumper 1 m, black, PUR cable	EVC012
	M12 jumper 5 m, black, PUR cable	EVC059
	Ethernet, cross-over patch cable, 2 m, PUR cable, M12 / RJ45	E11898
	Ethernet, screened patch cable, 2 m, PUR cable, M12 / RJ45	E12090

Zubehör

Description	Order no.
Profibus terminating resistor, M12 connector, 4 poles, B coding	E12315
PROFIBUS cable: straight M12 connector to straight M12 socket, connection cable, 10 m	E12317
PROFIBUS cable: M12 connector to free cable end, straight connector, 10 m	E12319
PROFIBUS cable: M12 connector to free cable end, straight socket, 10 m	E12321

Further cable lengths on request

The products

Description	Order no.
RFID evaluation unit	
 RFID evaluation unit, Profibus-DP EU/ETSI	DTE100
RFID antennas	
 RFID antenna 125 KHz	ANT512
RFID antenna 13.56 MHz	ANT513
RFID transponders for ANT512	
 ID tag/30X2.5/05 – 125 KHz 256 bits	E80360
ID tag/30X2.5/05 – 125 KHz 2048 bits	E80361
RFID transponders for ANT513	
 ID tag/30X2.8/03–13.56 MHz 16 Kbits – FRAM	E80370
ID tag/30X2.5/06 – 13.56 MHz 896 bits	E80371

Technical data RFID evaluation unit DTE100		
Operating voltage	[V]	18...30 DC
Current consumption AUX	[mA]	< 0.2 A closed circuit current consumption; < 3.0 A at max. load on IO-1 to IO-4
Current rating outputs	[mA]	(IO-1, IO-2) 500 (IO-3, IO-4) 1000
Ambient temperature	[°C]	-20...60
Protection		IP 67
Material		metal housing with plastic cover
Switching inputs at option		4
Switching outputs at option		4
Frequency range for ANT512	[KHz]	125
Frequency range for ANT513	[MHz]	13.56
Air interface ANT513		ISO 15693
Range	[mm]	60, tag dependent
Indicators	LED	red / green / yellow
Antenna concept, external		4
Antenna terminal, external		M12, 20 m unscreened