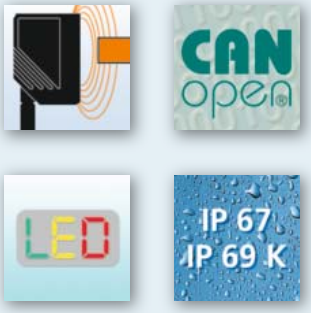
All in one unit: RFID antenna, evaluation and CANopen interface

RFID 13.56 MHz

- **Reliable identification of ID tags in workpiece carriers and products**
- **Robust housing for assembly, conveying and handling technology**
- **Optional alignment of the sensing face in five different positions**
- **High protection ratings IP 67 and IP 69K for use in harsh industrial environments**



Easy installation and application

The DTC510 RFID read/write doesn't need a conventional evaluation unit. This device combines RFID HF antenna, electronics and CANopen interface in one compact housing. This eliminates the need for complex wiring.

The corresponding ESD file ensures fast and easy integration into higher-level control systems with a CANopen master.

The antenna face can be aligned in five different directions . This means there are no limits to mechanical mounting. Typical applications are for example product tracking, material flow control and traceability.

Besides, the robust design with protection ratings IP 67 and IP 69K permits use in harsh industrial environments.

Application examples

Product tracking

The DTC510 can for example be used to store the number of the workpiece carrier on ID tags in production control.
This ensures that the right product is in the right place at the right time.

Material flow control

The RFID system can be used to check whether the right material is available in the required quantity and quality in the right place at the right time.

Traceability

Traceability is an important tool for production control and optimisation. RFID and DTC510 provide the data that is sent to a controller or to a database.

Accessories

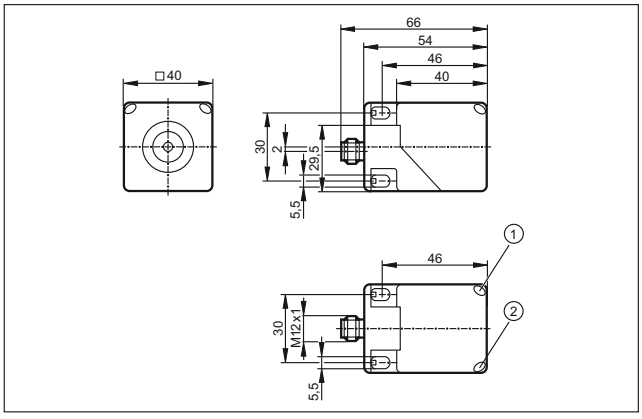
Type	Description	Order no.
Mounting accessories		
	Mounting plate stainless steel	**E12106**
	Mounting plate stainless steel	**E12161**
RFID tag		
	ID tag/30X2.8/03 – 13.56 Mhz, 16 Kbits – FRAM	**E80370**
	ID tag/30X2.5/06 – 13.56 MHz, 896 bits	**E80371**
	ID tag/R20X2.5/06 – 13.56 Mhz, 896 bits	**E80377**
	ID tag/30X2.8/03 – 13.56 MHz, 64 Kbits	**E80380**
	ID tag/D50X3.0/0 – 13.56 Mhz, 16 Kbits – FRAM	**E80383**
	ID tag/D50X3.0/0 – 13.56 MHz, 1024 bits	**E80384**
	ID tag/4.35X3.6/03 – 13.56 Mhz, 896 bits, 10 pcs	**E80381**
	ID tag/51x51/06 – 13.56 Mhz, 896 bits, 10 pcs	**E80400**
	ID tag/Teardrop Shape/06 – 13.56 Mhz, 896 bits, 5 pcs	**E80387**
	Tag fixture for workpiece carriers	**E80348**

The products

Type	Description	Order no.
	Read/write head, CANopen interface	**DTC510**

Further technical data		
Operating voltage	[V DC]	9...32
Current consumption	[mA]	≤ 50 (24 V), ≤ 80 (12 V)
Ambient temperature	[°C]	-20...60
Distance to the ID tag referred to a 30 mm disk tag	[mm]	≤ 60
Protection rating, protection class		IP 67 / IP 69K, III
Housing materials		PA, stainless steel
Connection		M12 connector; rotatable, locking

Dimensions



1) LED yellow
2) LED green
2) LED red

Connection technology

Type	Description	Order no.
	Socket, M12, 5 m black, PUR cable	**EVC492**
	Socket, M12, 10 m black, PUR cable	**EVC683**
	Y splitter M12 connector / 2x M12 socket	**E12529**