



Identification systems

RFID with CANopen or J1939 interface for mobile machines



RFID 13,56 MHz



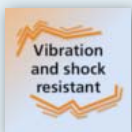
Optimised for outdoor use with IP 67 and IP 69K

Extended temperature range of -40...85 °C

E1 type approval

Shock and vibration resistant to EN60068

Versions with CANopen or J1939 interface



RFID compact units suitable for mobile use

The robust RFID compact units with CANopen or J1939 interface have been developed for identification tasks in agricultural machines, municipal vehicles and construction machines. This guarantees a quick and safe change of the attachments. The machine operator knows which units are connected at any time.

He also receives exact information on operating times and maintenance intervals. This allows new service scenarios.

Simple solution from ifm

RFID antenna, evaluation and interface are integrated in one compact and robust M18 or M30 housing.

In contrast to conventional solutions with separate antennas and evaluation systems the wiring complexity and required space are reduced.



Application

Mobile machines are becoming ever more complex and complicated to use. Individual components assume more and more tasks.

With ifm's RFID system handling can be simplified and errors can be avoided: individual components or attachments are identified by means of an RFID tag and the corresponding set-up is set automatically in the controller.

Set-up times are minimised. Automatic identification simplifies the creation of user-specific system set-ups. Wrongly set process parameters are a thing of the past.

Higher productivity

Information on maintenance intervals and operating times can automatically be generated and stored since the controller detects when and how long a specific machine set-up runs. This increases productivity.

Perfectly suited for use in industrial applications

The RFID system is also suitable for industrial applications in which CANopen controllers are used.

In this environment the DTM4xx RFID identification system is ideal thanks to its excellent price / performance ratio.

Accessories






Type	Description	Order no.
Display		
	BasicDisplay XL, 4,3", CAN Interface	CR0452
	Process and dialogue unit PDM360 NG, 7" colour display	CR1081
RFID transponders		
	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/4.35X3.6/03 – 13.56 MHz, 896 bits, 10 pcs	E80381
	ID tag/label 65X30/03 – 13.56 MHz, 896 bits, 500 pcs	E80382
	ID tag/label 80X50/03 – 13.56 MHz, 896 bits, 500 pcs	E80379

The products

Description	Order no.
RFID evaluation unit / RFID antenna CANopen interface	
M18 flush, 13.56 MHz	DTM424
M18 non-flush, 13.56 MHz	DTM425
M30 flush, 13.56 MHz	DTM434
M30 non-flush, 13.56 MHz	DTM435
RFID evaluation unit / RFID antenna SAE J1939 interface	
M18 flush, 13.56 MHz	DTM426
M18 non-flush, 13.56 MHz	DTM427
M30 flush, 13.56 MHz	DTM436
M30 non-flush, 13.56 MHz	DTM437

Further technical data		
Operating voltage	[V DC]	9...32
Current consumption sensor	[mA]	< 50 at 24 V, < 85 at 12 V
Ambient temperature	[°C]	-40...85
Protection rating, protection class		IP 67 / IP 69K, III
Housing material		stainless steel
Interfaces		1 x CAN
Supported CAN protocols		CANopen, SAE J1939
Standards and tests (extract)		CE, radio approval
Connection		M12 connector

Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVM036
	Socket, M12, 10 m black, PUR cable	EVM038
	Socket, M12, 5 m black, PUR cable	EVC492
	Jumper, M12, 5 m, black, PUR cable, LED	EVC039
	Jumper, M12, 5 m, black, PUR cable	EVC069