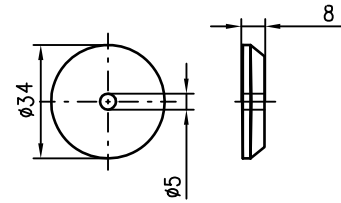


Part No. 501 08859

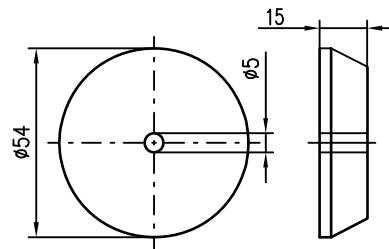


Dimensioned drawing

TFM 03 1110.EX



TFM 05 1110.EX



- Robust disc transponder with ATEX approval in accordance with zone 2
- Suitable for read-write device RFM32SL200 EX-n
- Can be mounted on metal (reduced operating range)

We reserve the right to make changes * tfm_02gb.fm

Specifications

General specifications

Working frequency	13.56MHz
Data protocol	I-Code SLI
Memory size	1024bits
User data	896bits / 112 bytes
Memory structure	32 blocks with 32bits (4 bytes) each
Memory access	write/read
Read distance	see Diagrams
Data carrier speed	max. 4.0m/s (see Diagrams)
Data storage	see table
Memory access	write/read - approx. 50ms/block min. 100,000 write cycles typical, min. 10 years of data retention

Mechanical data

Material	PA6 / PU
Colour	black
Weight	0.045kg (TFM05) / 0.01kg (TFM03)
Dimensions	see dimensioned drawing

Environmental data

Ambient temp. (operation/ storage) ¹⁾	-25°C ... +60°C/-25°C ... +85°C
Protection class	IP 67
Standards applied	EN 50014:1997-A1-A2 (general regulations) EN 50020:2002 (intrinsic safety) 94/9/EC explosion protection directive Ⓢ II 2G EEx ia 1IC T4 Ⓢ II 2D Ex iaD 2I T70 °C

Certifications

1) Observe ATEX approval area

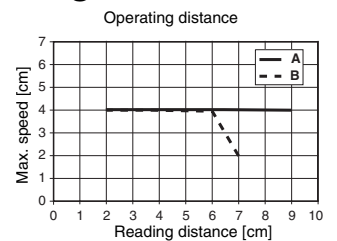
Remarks

The read-write transponders of series TFM0x 1110.EX are robust data carriers with 112 bytes of memory for a broad range of applications in potentially explosive areas of zone 2.

Please observe the approval conditions.

The specified operating ranges refer to read-write device RFM32SL200 and may vary due to temperature influences, installation site, reading angle, etc.

Diagrams



A TFM05 EX
B TFM03 EX

Tables

Data structure	Access	Bits
Transponder ID	Read only	64
User data	Read/Write	28x32
Header-Paritybits	not possible	64

Order guide

Disc transponder

Ø 34mm, 112 byte memory
Ø 54mm, 112 byte memory

Designation

TFM 03 1110.EX
TFM 05 1110.EX

Part No.

501 08071
501 08070