

Radio Receiver TFE-14/TFE-54

The CANbus Receiver



The radio remote receiver TFE-14 (construction machines) or TFE-54 (cranes and hoists), respectively, is particularly designed for machine controls with field bus connection.

It has a low volume and is robust against external influences.

- Extraordinarily compact construction
- Offers all necessary components to meet the criteria of category 3 PL d according to EN ISO 13849-1:2006 (incl. two separated emergency stop circuits)
- To be used exclusively for control systems with CANopen®, CAN or V24
- Standard connection: 10-pole industrial connector for simple installation

Compatible with

Radio transmitter TMS-16



Radio transmitter TMS-51 up to TMS-55



Radio transmitter TMS-56

Radio transmitter TMS-51

Technical data

Type	TFE-14/-54	
Supply voltage	8 bis 36 VDC	
Power consumption	≤ 3,2 W	
Output	CANopen®, CAN (proprietary protocols) or V24	
field bus	1 x (switches output towards +Vs) / I _S < 2 A	
switch contact		
Emergency stop	2 x potential-free relay contact, I _S < 0.8 A	
Feedback (optional)	Yes (feedback data via field bus)	
Frequency range	433.075 bis 434.750 MHz 869.725 bis 869.975 MHz	2.4 GHz
RF sensitivity	-112 dBm for BER ≤ 10 ⁻⁷	
Operational temperature	-20 bis +60 °C	
Protection class	IP65	
Dimensions	155 x 140 x 75 mm ³	
Weight	900 g	

- LED indication for receiver status
- two separated emergency stop contacts
- 1 separate output contact (e.g. for universal release)
- can be equipped with a V24 interface optionally
- Internal diagnosis interfaces for the service
- Optional Windows based diagnosis software for parameter adjustment and inspection

Optional extensions

Control cable TFE-X4

- 2 m
- 2 wires twisted with separate shielding



Option

Slip-on antenna with angle adapter



Number of switch contacts



CANopen®, CAN or V24