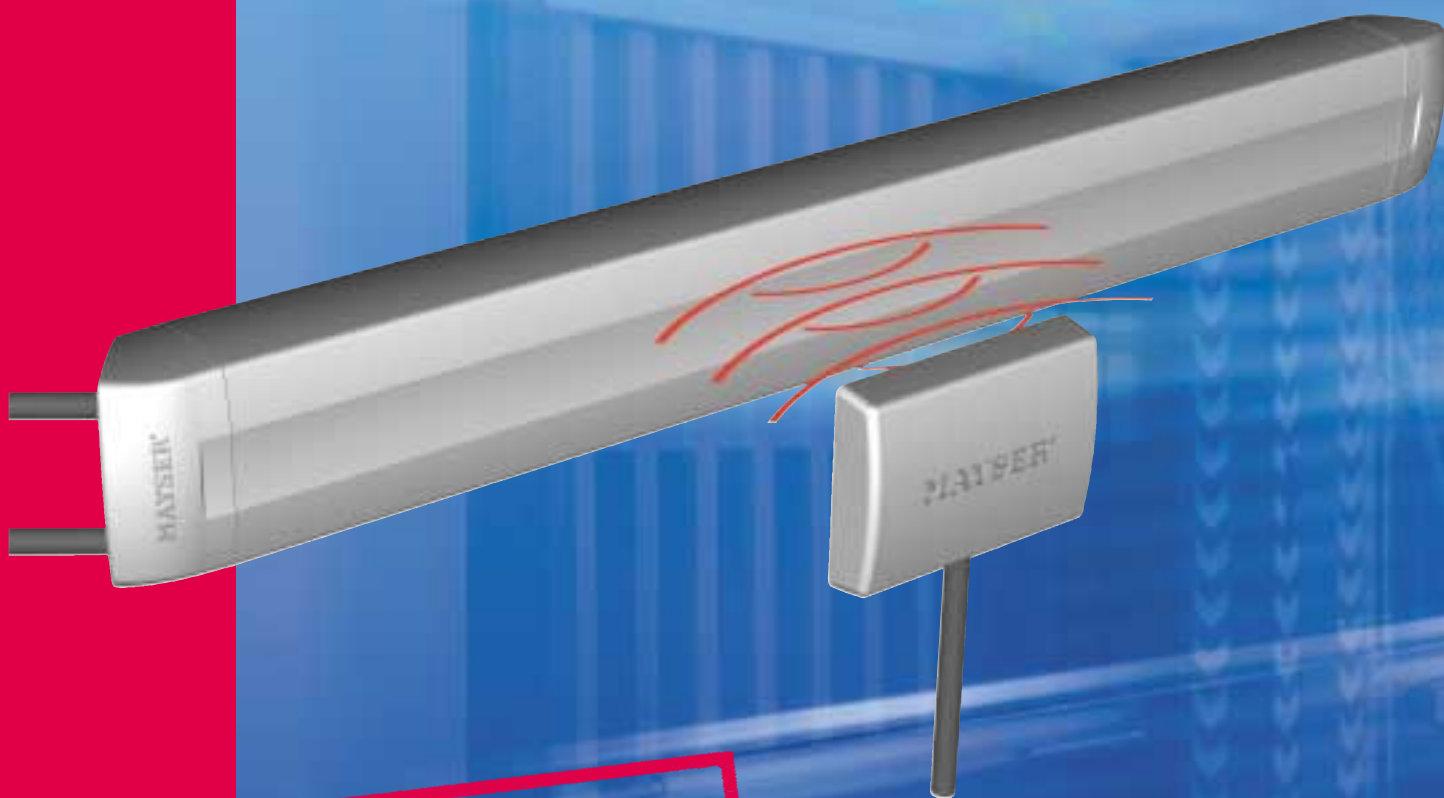


MAYSER®
Polymer Electric

Wireless Safety – wireless signal transmission



NEW

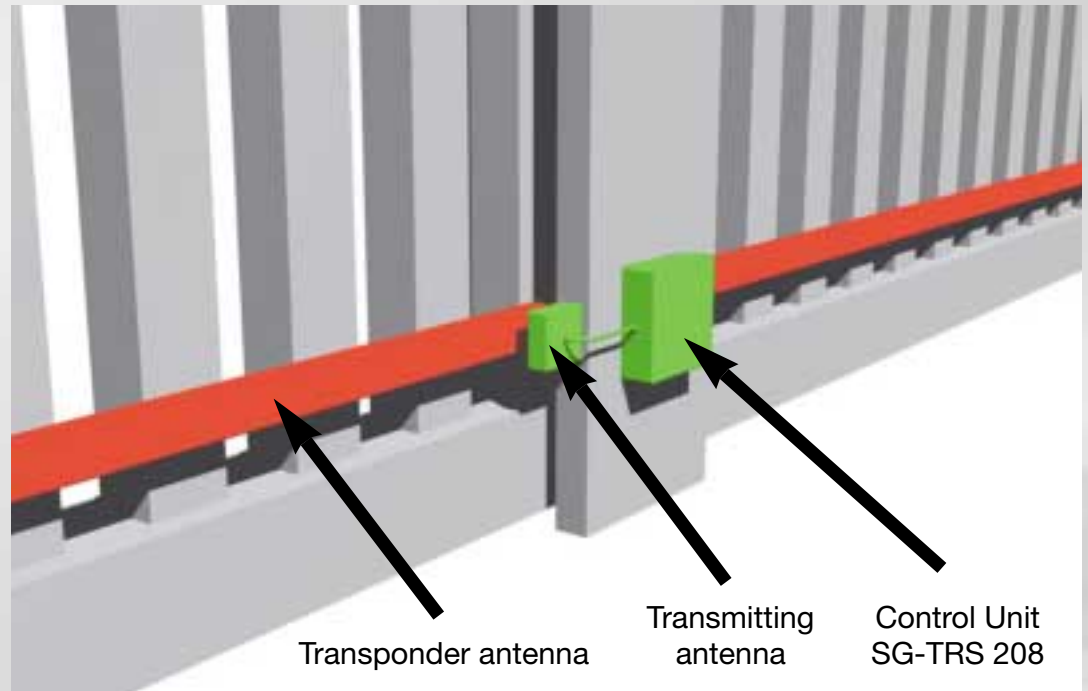
- No external energy source – such as batteries – required
- Maintenance-free – movement or dirt do not cause wear and tear
- Unsusceptible to environmental influences such as ice, snow, water and dirt
- Installation is quick and easy – regardless of door system tolerances



Wireless Safety – especially for fast acting roller doors, sliding gates, roller doors and sectional overhead doors

Wherever lifting, lowering, sliding, driving or swivelling movements have to be controlled in order to protect people from injury, Mayser Polymer Electric has convincing solutions that are safe, reliable, innovative and economical. The intensive development and design engineering carried out down through the years has enabled us to continue to improve and extend our product range. The most recent achievement: Wireless signal transmission using transponder technology.

We have been using transponder technology for sure wireless transmission in public transport door systems (swing and sliding doors) for many years now. The door and gate industry having its own special requirements, we developed the proven system to put it to work in this application area, too.



Setup on a sliding gate

Safety system with wear-free signal transmission

The system consists of a Safety Edge with an integrated transponder, signal transmission and Control Unit. The signal transmission takes place without any wires – from antenna to antenna. For use on the main closing edges on door and gate systems – optimal. Simple assembly, highly reliable, absolutely wear-free and maintenance-free.

Our transponder system is technology at its best and it goes without saying that the entire system fulfills the safety requirements set out in SIL2 EN 61508, EN 12978 and EN 954 category 3.

How does the transponder work?

The transponder system always consists of two components: the sender and the receiver. Both components communicate with each

other using radio waves, the transponder side does not require an external power supply. During gate movement the Control Unit sends out evaluations to the door control on a continuous basis and at the same time supplies the transponder with energy via the transmitting antenna by means of electromagnetic waves. Signal information from the Safety Edge is sent from the transponder via the electric field to the transmitting antenna and from there it returns to the Control Unit. The Control Unit evaluates the signal and transfers it to the door control.

Why a transponder?

One big advantage the transponder has is that it does not require an external source of energy. In addition to this, the method of communication guarantees that the system is not susceptible to noise interference from other radio systems. And to top that, transponder technology allows large system tolerances – in centimetres – between the antennas, due to its field geometry.

Advantages of wireless signal transmission:

- No external energy source – such as batteries – required
- Maintenance-free – movement or dirt do not cause wear and tear
- Unsusceptible to environmental influences such as ice, snow, water and dirt
- Installation is quick and easy – regardless of door system tolerances
- Safe in accordance with SIL2 EN 61508, EN 12978 and EN 954
- Suitable for retrofitting
- Unsusceptible to radio signals

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