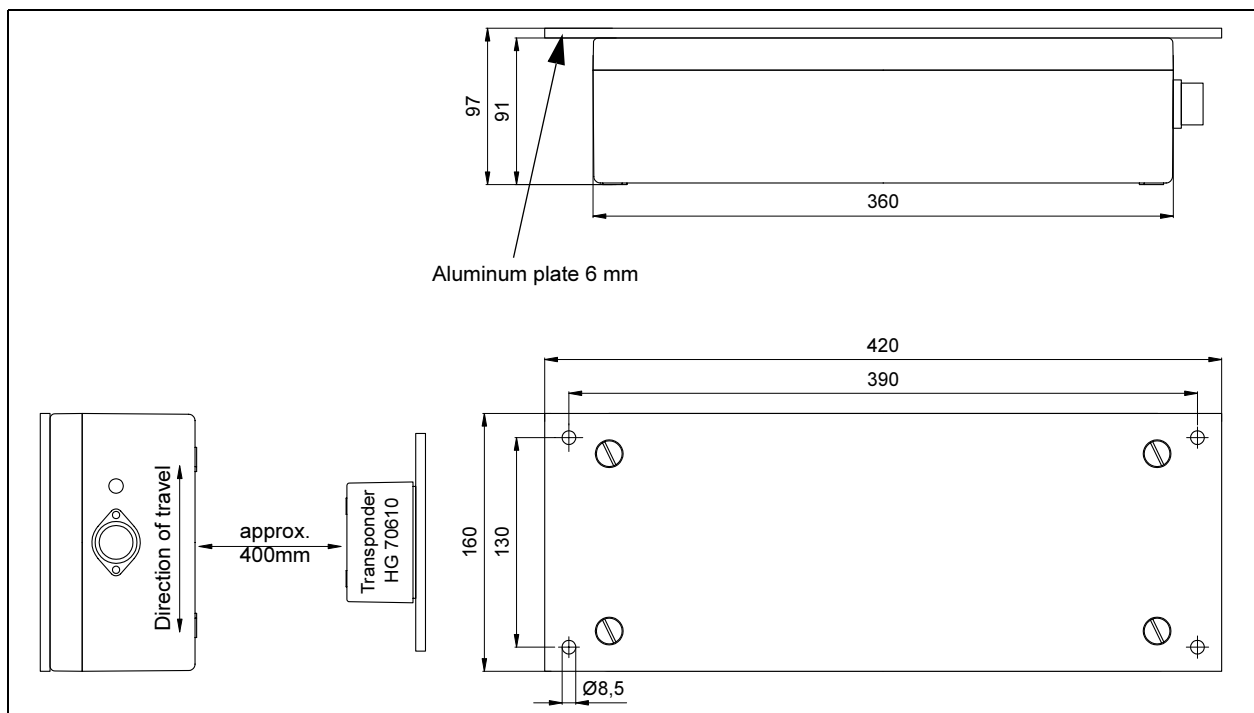


Operation

Transponder Reader HG 70640YC and Transponder (Balise) HG 70610RE are used in railway applications. This system enables transmitting a unique, position depending transponder code punctually. The Reader is installed underneath the train, the Transponder (Balise) is installed within the road bed, preferably onto a sleeper. The nominal reading distance between reader and Transponder is 400 mm. The Transponder crossing speed can be up to 100 km/h.

When crossing the Transponder, the Reader energizes the Transponder inductively with energy. At any other time, the Transponder is passive and does not require any power supply.

- Applied standards: ETSI EN 300 330-1 V1.5.1 (2006-01), EN 50 121-3-2, partially EN 50 155
- Integrated antenna
- Data transmission via Back scatter procedure



Technical Data

- Power Supply	24 Volt (20..75 Volt DC)
- Current consumption at 24V	0,5 A
- Operating frequency	131 kHz
- Magn. field strength	45 dB μ A/m (+0 / -3 dB) at 131 kHz at a distance of 10 m
- Magn. field strength	110 dB μ A/m at 131 kHz at 0,5 m distance
- max. crossing speed	> 100 km/h with Transponder HG 70610 RE at nominal reading distance
- Reading distance	100 to 800 mm (without influences on the magn. field)
- Nominal reading distance	400 mm
- Dimensions incl. mounting plate (without connector)	420 x 100 x 160 mm (W x H x D)
- Weight incl. mounting plate	less than 10 kg
- International Protection Class	IP 65
- Temperature range	Operation -25 to +70° C short term operation (< 15 min)-35 to +85° C storage -35 to +70° C
- Humidity	95% rel. humidity

Pin	Signal
1	GND
2	Disable
3	Data
4	+UB

Table:
Pin allocations