

Train detection sensor MXTS-20/IP (E)

Train sensor MXTS-20/IP is developed for systems when very reliable detection is required but space is a premium. Device uses original very compact dual-technology train detection module MXTS-20/IP/E, designed for embedded installations.

Ultrasound and ultra-wideband radar technologies are combined in this device for the most reliable detection. Sensor can utilize PoE or DC power and communicates over IP network.

Ultrasound transducer transmits in direction perpendicular to train wall, ultra-wide band radar – under angle of 45 degrees (for speed measurement in addition to train presence info). Adjustable mounting provides means to align sensor properly.

Multiple protection circuits and industrial-grade parts provide high reliability in harsh environments, multiple power options – allow flexible installation options.



Train sensor with mounting



Train sensor module (without ultrasound transducer)

Train sensor MXTS-20/IP (E) capability:

- Train presence detection (1-8 m distance)
- Reliability -- dual technology to establish presence (ultrasound + radar)
- Train speed measurement (0 – 250 km/h, adjustable)
- Sensor location -- side of the track
- Iniversal mounting kit – pole or wall mount (adjustable, included)
- Power source – PoE or DC
- Connectivity – IP
- Embedded version available for integration (sensor module without casing)



I T S O L U T I O N S , T R A I N I N G A N D C O N S U L T A N C Y

Train sensor technical data:

- Distance to train: 1 - 8 m.
- Ultrasound frequency: 40 kHz
- Radar frequency band: 24 – 24.25 GHz
- Power source: PoE or DC (32-72V DC)
- Power consumption: <2 W
- Working temperature: -- 40 -- +55 C
- Ethernet port and power: with overvoltage and surge protection
- Environment protection: IP 67
- Dimensions 150x80x100 mm (without mounting kit)
- CE, ROHS
- Dimensions: 170x80x100 mm (without mounting kit and connector)

Train sensor radar directional pattern:

