



# COE Series 300-TE

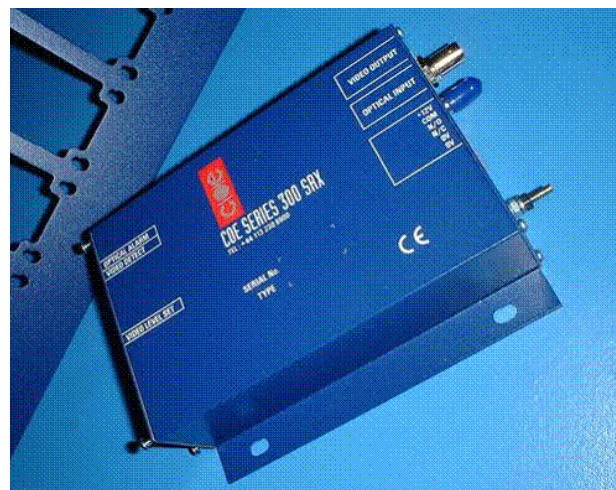


UK Railway Approved Video transmission product for singlemode optical fibre for fixed camera applications.

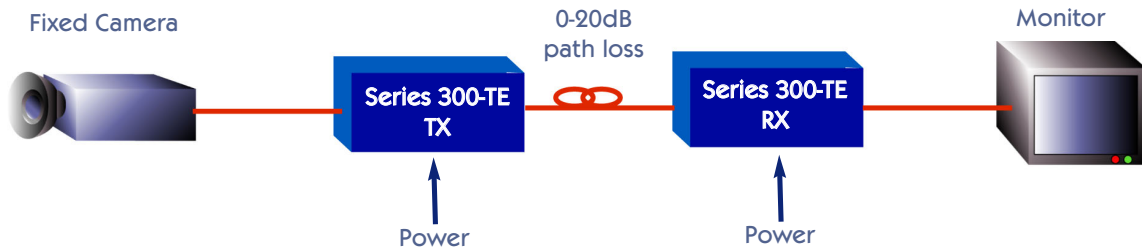
The COE Series 300-TE provides transmission of one video signal on one singlemode optical fibre. It has been designed specifically for UK Railways where high performance, high quality and flexible product configuration is required. Digital FM synthesis and control of all circuitry guarantees optimal performance over the environmental operating range. The Series 300-TE is type approved.

## System Features and Benefits

- 1 simplex high quality FM transmission channel – Meets RS250B medium haul specification as required by the professional video market
- Multi standard video channel with 10MHz bandwidth – Supports PAL & NTSC signal formats including audio sub carriers
- Single fibre operation for all product formats with 0 - 20dB optical budget performance – Minimum system fibre usage with adjustment free operation up to 50km+
- Comprehensive alarm diagnostic LEDs with relay output for remote monitoring – Fast diagnosis of system faults or fibre failure both visually and electrically
- Remote enable included on both transmitter and receiver units – Allows multiple infeed and dual redundant systems to be configured
- Type approved - for use on UK Rail Network under certificate PA05/02028
- Supplied as boxed units - for environmental cabinet or 19" shelf mounting
- Power supplies - supplied with all necessary EMC compliant fixtures and cables



## Application



## Performance and Specifications

### Video

Channel bandwidth	10MHz min
Video Input level	1Vp-p with +3dB overload point
Video channel gain	1 (+/-30%adjustable)
Impedance	75 Ohms unbalanced
Signal/Noise ratio	>60 dB weighted
Diff Phase	1 °
Diff gain	2 %
K rating	1 %

(Meets overall requirements of RS250B medium haul)

### Environmental

Operating temperature	-30 °C to +74 °C
Storage temperature	-30 °C to +75 °C
Vibration	5g
EMC compliance	to EN50121-4: 2000

### Mechanical

301STXB-TE	80 x 96 x 33mm
301SRXB-TE	160 x 141 x 49mm

### Optical performance

301STXB-TE	-3dBm launch
301SRXB-TE sensitivity	-3dBm to -23dBm
Path loss capability	0 -20dB (All variants)

### Power requirements

301S (TX or RX)	+12VDC @200mA
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### Connections

Video	75 Ohms BNC
Fibre	FC/PC
Power	S300 Receiver - 6 way 0.2" pitch two part screw terminal connector S300 Transmitter - flying lead

### Power Supplies

To ensure compliance to the UK railway EMC standards, COE provides a power supply with EMC compliant connectors and lead assemblies

### Order codes

301STXB-TE	Single channel video transmitter	300TXPSUUAC-TE	Universal Input Transmitter Power Supply
301SRXB-TE	Single channel video receiver	300RXPSUUAC-TE	Universal Input Receiver Power Supply



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In line with the company policy of continuous improvement, COE reserves the right to vary descriptions and specifications without notice.

COE Limited · Photon House · Percy Street · Leeds LS12 1EG

Tel: + 44 113 230 8800 · Fax: + 44 113 279 9229

DDI: + 44 113 230 8801 · Email: sales@coe.co.uk

www.coe.co.uk

Asia Tel: + 65 6325 6018 · Fax: + 65 6223 0372

