ProfiDAT®

Data Transmission System

CONDUCTIX
wampfler
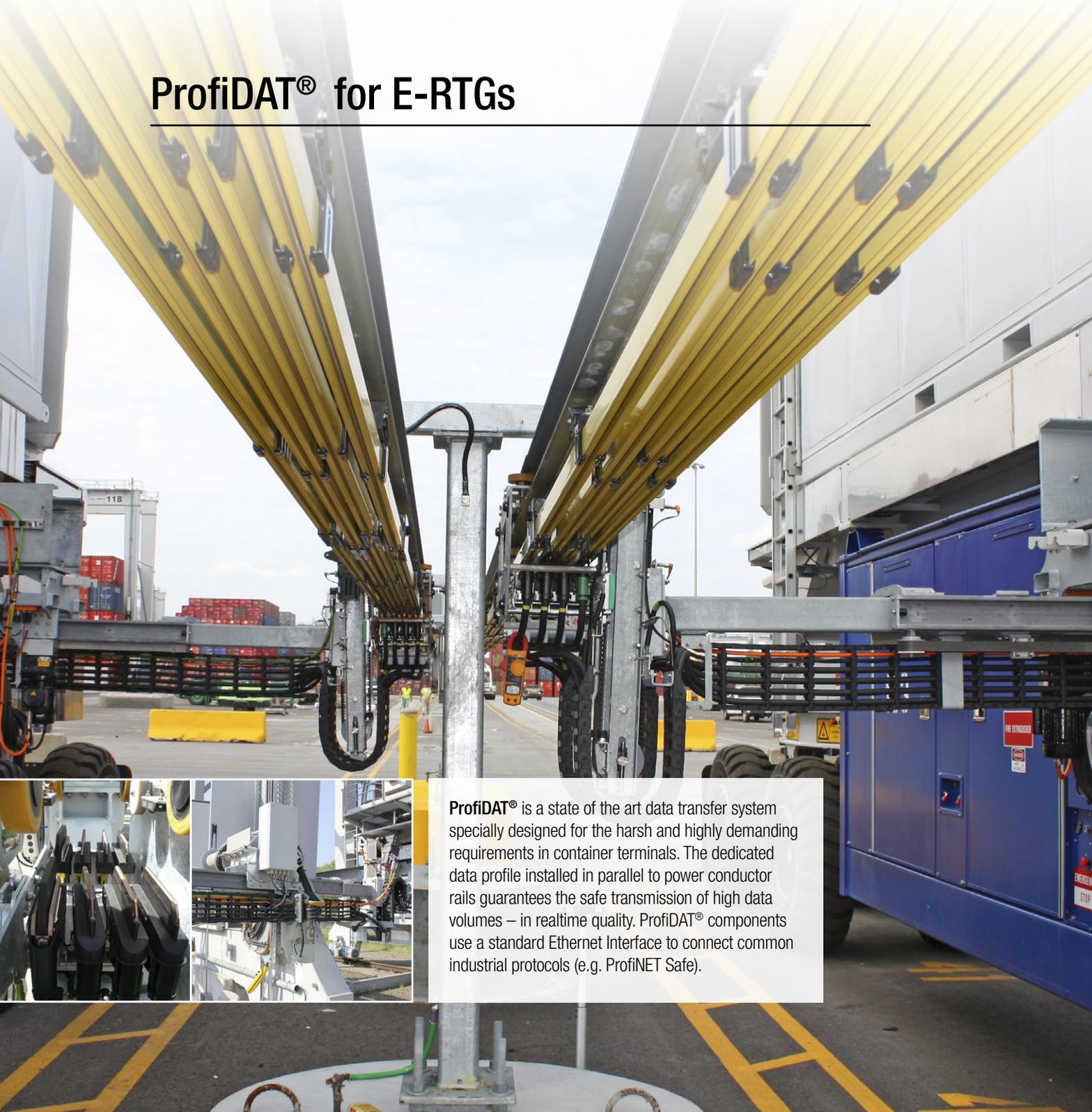
ProfiDAT® for STS Container Cranes

ProfiDAT® is the most compact data communication solution on the market. The use of the ground rail for data makes it possible to convert a standard 3+PE (Earth) Conductor Rail configuration into a 3+PE (Earth) data solution – up to 100Mbps – without adding an additional profile. A redundant set of antennas allows the crossing of STS boom hinge points or expansion joints.

ProfiDAT® for E-RTGs

ProfiDAT® is a state of the art data transfer system specially designed for the harsh and highly demanding requirements in container terminals. The dedicated data profile installed in parallel to power conductor rails guarantees the safe transmission of high data volumes – in realtime quality. ProfiDAT® components use a standard Ethernet Interface to connect common industrial protocols (e.g. ProfiNET Safe).

ProfiDAT® Features

- Transmission of **high data rates** up to 100Mbps

- Easy integration with common bus systems; **ProfiDAT®** uses common **RJ45**

- **Fail-safe** with shielded WLAN signals for data transmission

- **Fail-safe** transmission of emergency stop e.g. with Profisafe

- **Compact installation** by combining the data profile with Conductix-Wampfler conductor rails

- Transmission that is **independent of** the mobile vehicle's **travel speed**

- **Resistance** against environmental influences, such as temperature, humidity, fog, dust, etc.
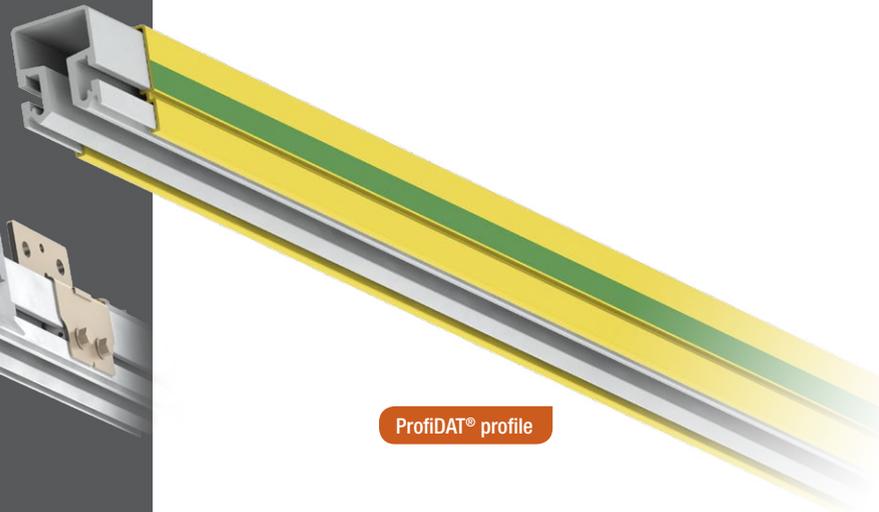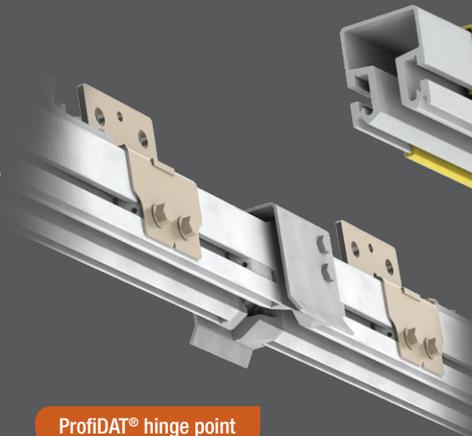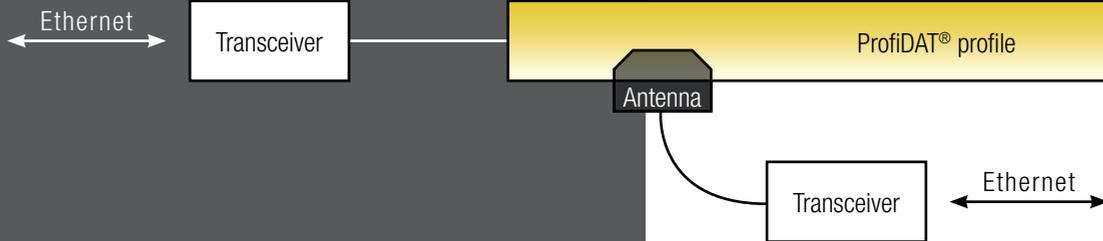
System Overview

Technical Details

Type:	ProfiDAT®
Transmission data rate:	up to 100 Mbit/s
Fail-safe Transmission:	yes (Profisafe)
Transmission length:	up to 500 m travel distance per access point
Interface:	Gigabit Ethernet (M12)
Components:	2 x Transceiver ProfiDAT® profile antenna with cable

The ProfiDAT® antenna is an integral part of the current collector head. It moves inside the ProfiDAT® profile and is in contact with the mobile transceiver. Corresponding transceivers for each side have a standard Ethernet interface and are placed in the E-rooms or in separate control panels.

Ethernet ↔ Transceiver — ProfiDAT® profile

Antenna — Transceiver ↔ Ethernet

ProfiDAT® feed in unit

ProfiDAT® hinge point

ProfiDAT® profile

www.conductix.com

For more information on ProfiDAT® please contact us.

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CONDUCTIX wampfler

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