

RAILWAY SECTOR



APPLICATIONS AND REFERENCES



HUMMEL Applications and References in the Railway Sector

Signal and Power Connectors & Cable Glands

HUMMEL solutions for the railway sector

HUMMEL products are established in the railway sector. The cable glands and circular connectors can be found in track systems, in signaling and also on rail vehicles. With EN 45545-2 certification, these components meet all requirements for applications in infrastructure as well as on, under or on top of rail vehicles. In addition, the VariaPro Rail cable gland meets the requirements of the stricter EN 45545-3 and can therefore also be used in passenger compartments of rail vehicles.

RAIL CONTROL

1 Railway Tracks



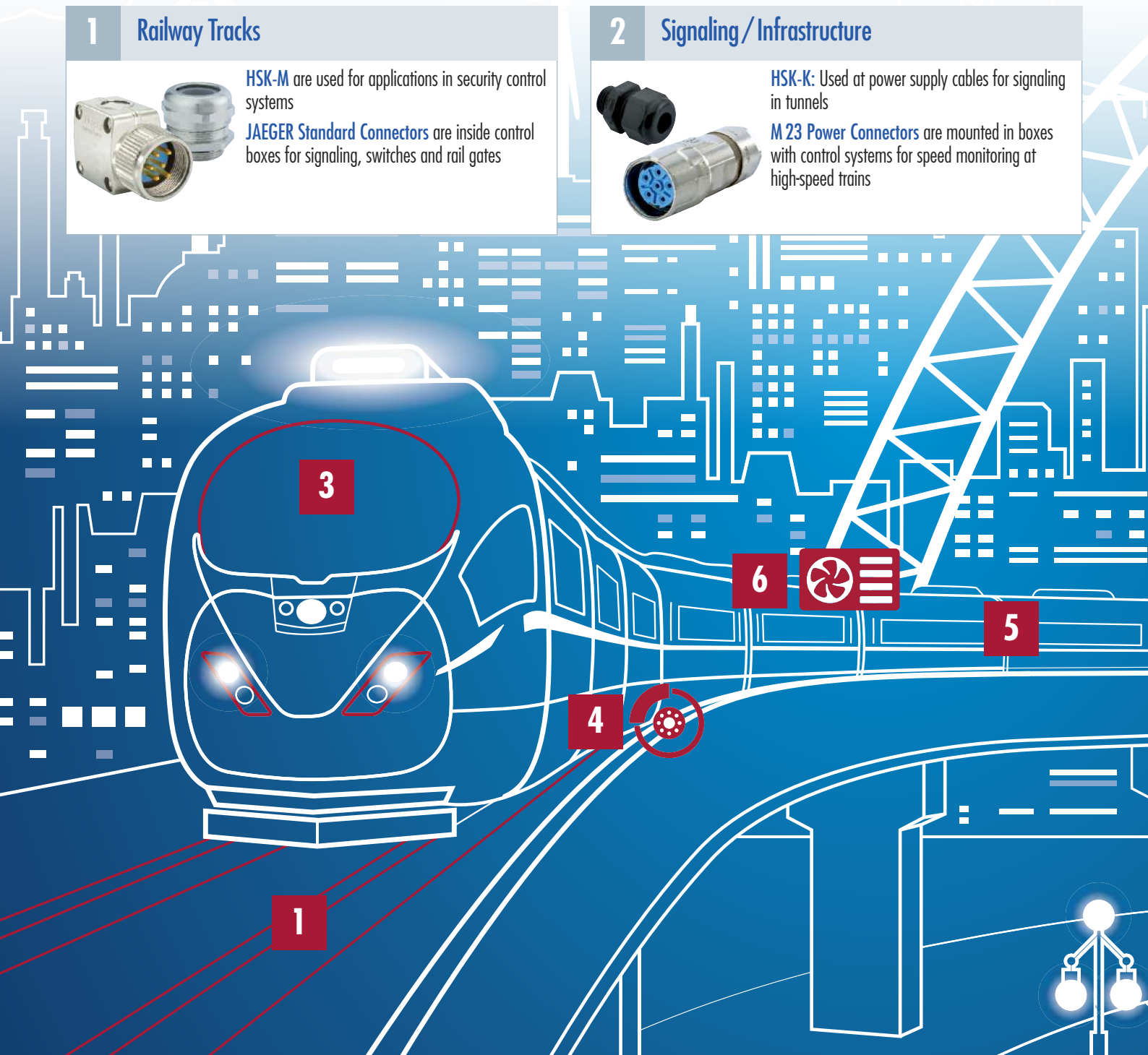
HSK-M are used for applications in security control systems
JAEGER Standard Connectors are inside control boxes for signaling, switches and rail gates

INFRASTRUCTURE

2 Signaling / Infrastructure



HSK-K: Used at power supply cables for signaling in tunnels
M 23 Power Connectors are mounted in boxes with control systems for speed monitoring at high-speed trains



RAIL VEHICLES

3 Locomotive / Railcar




HSK-M-W is fixing the power cable from the lighting system in high-speed trains
M 23 Power Connectors are transmitting the power for industrial ethernet switch boxes

4 Braking and Traction Systems  **EMC**




HSK-K-Ex-Active fixes the power supply and sensor cables for the braking system below the carriage
HSK-M-EMV-D Cable Glands are protecting and fixing the power cables for traction systems

5 Cabling, Ventilation and Control Systems




HSK-MZ is used for fixing the power and signal cabling between the carriages. It is installed below the floor of the cabins.
HSK-INOX-PVDF works reliably in a high temperature application for speed monitoring at the wheels.

6 Air condition and Monitoring



HSK-M: Fixing the signal and power supply cables for the air condition, the ventilation and for monitoring systems.

7 Door Systems

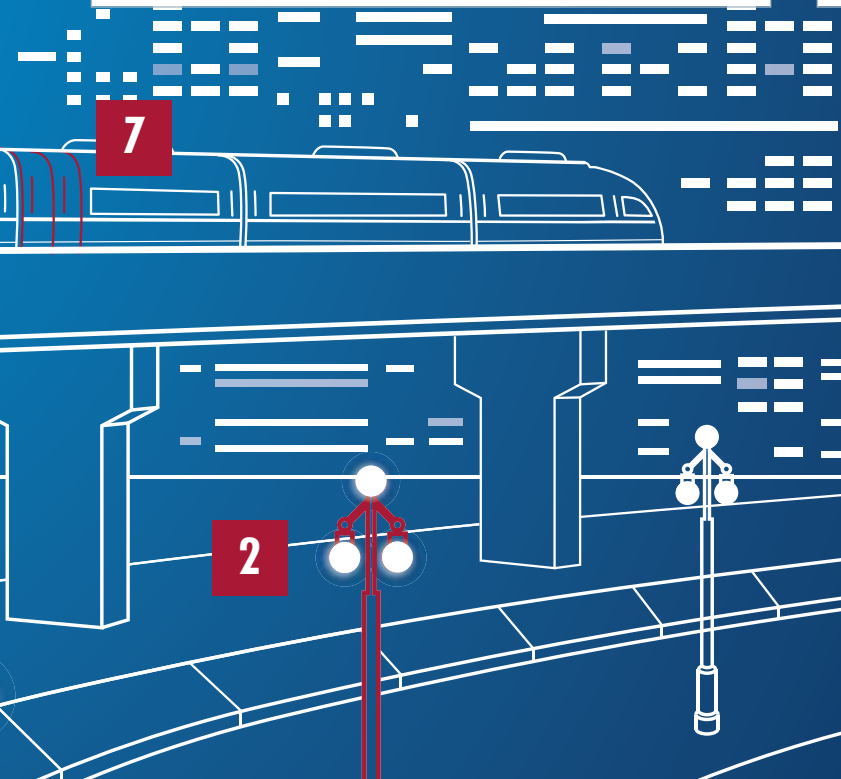


M 16 Connectors are transmitting power and signals for opening and closing the doors and also for automatic counting systems.

Others



M23 Signal Connectors are used in platform security doors for passengers
HSK-M Cable Glands are installed in the restrooms of trains at the signal connection for water level and smoking sensors.



References:

ELECTRIC COMPONENTS

Cable Glands

Polyamide-, Brass- and Stainless steel,
EMC-connections, Protection Ex e, Ex d, Ex ta



Circular Connectors

M 8 to M 40, INOX, TWILOCK, Industrial Ethernet,
Power, Signal, Hybrid-Connector, Moulded Cordsets



Conduit Systems

Corrugated Conduit Systems, Conduit Cable Glands, Angled Systems,
combined Cable Glands, Accessories



Cable Assembly

Moulded Signal- and Power Circular Connectors,
Servo Cables, Cable Sets



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