

**Setting big things
into motion.**

Railway Vehicles.



Railway Vehicles

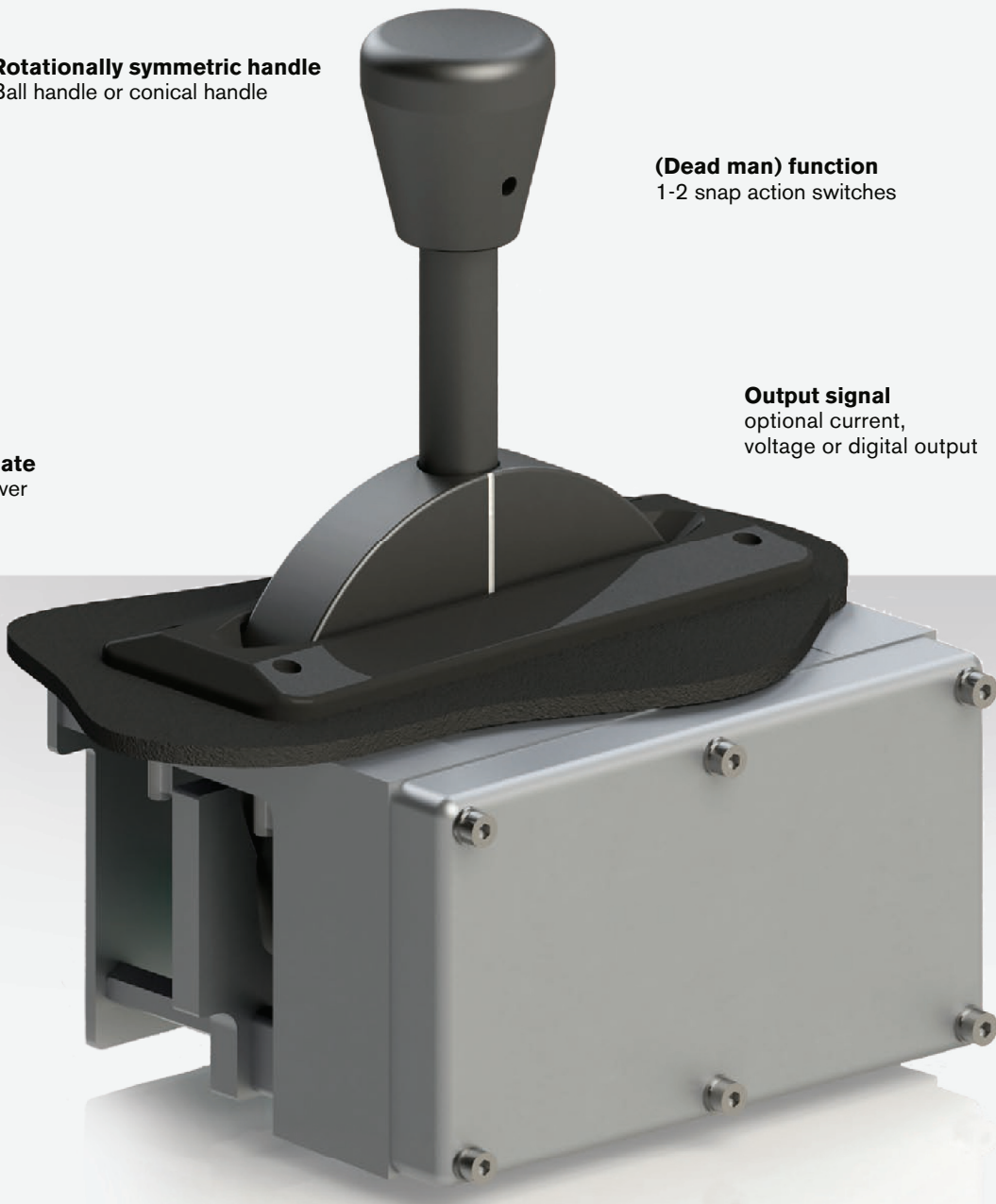
Traction Brake Controller

Rotationally symmetric handle
Ball handle or conical handle

(Dead man) function
1-2 snap action switches

Faceplate
with cover

Output signal
optional current,
voltage or digital output





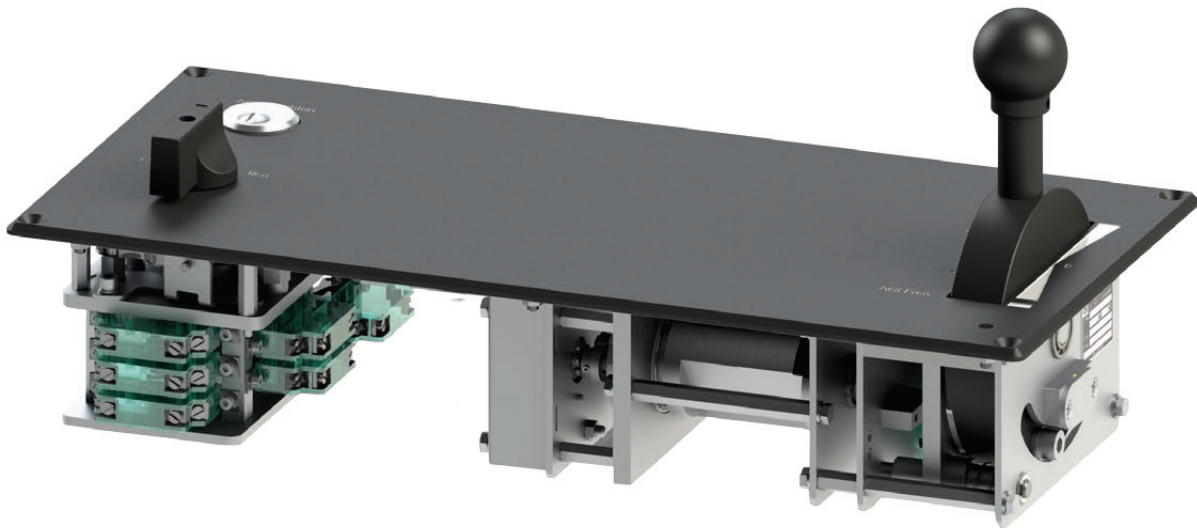
Master Control Unit Series MC-01

The drive switch unit from the MC-01 range shown below is specifically designed for rolling stock applications.

The unit essentially comprises three main components – a traction brake controller, a mode selector and a key switch. In addition a mechanical interlocking system, configured to suit the project in question, acts between these three main components.

Thanks to its modular construction, the unit's mechanical and electrical functions can both be customised to a very wide range of customer requirements.

The development of this range has already achieved a significant reduction in life cycle costs (LCC). This guarantees that these devices will set the standard, from both technical and commercial perspective, for the next 35 years.



List of standards

Technical data and relevant standards:		
Ambient temperature outside vehicle	-	-40°C to +50°C -> EN 50155 class T1, T2, T3, TX
Nominal supply voltages	-	24, 48, 72, 96 or 110 VDC with variations according to EN 50155
Shock and vibration	-	According to EN 61373
Electromagnetic compatibility (EMC)	-	According to EN 50121-3-2
Isolation and high voltage test	-	According to EN 50155
Pollution degree	-	PD 3 according to EN 60077-1 (others on demand)
Fire and smoke	-	compliant to EN 45545 (others on demand)
Mechanical endurance traction brake controller	-	10 million operating cycles
Mechanical endurance mode selector and key switch	-	> 1 million operating cycles
Electrical endurance	-	Minimum operating cycle class C3/A3 according to EN 60077-2

Railway Vehicles



Control panel



Control Unit



Traction Brake Controller



Master Control Unit



Traction Brake Controller linear

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