

Mors Smitt

Measuring systems



MSAV25000 / MSAV-DC catenary multi-voltage & current sensors





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Catenary multi-voltage & current sensors



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Summary



- Mors Smitt offering
- Sensors applications
- Functionalities/ Improvements

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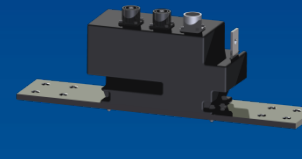
MSAV25000 / MSAV-DC Innovative solutions



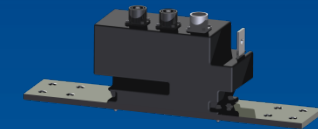
MSAV25000



MSAV25000 + remote box



MSA-DC

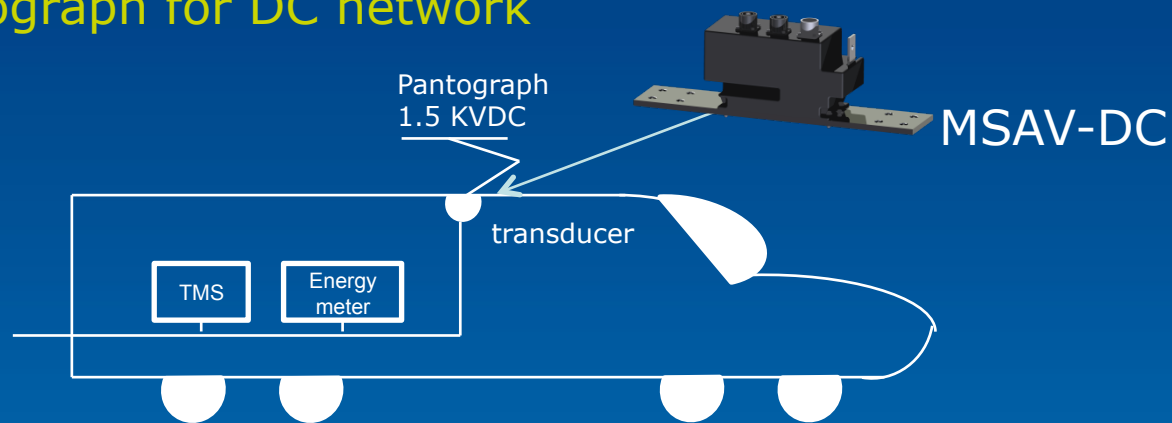


MSAV-DC
For DC trains only

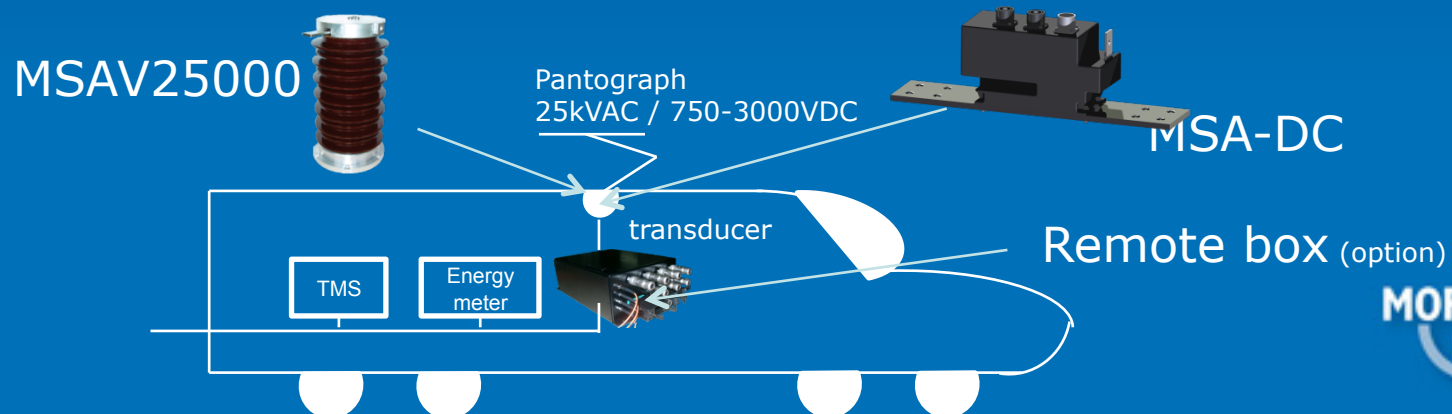
	MSAV25000	MSAV25000 + remote box	MSA-DC	MSAV-DC For DC trains only
A dc (10-16kA)			✓	✓
U dc (750 - 3000VDC)	✓	✓		✓
A ac (600-900A)	✓	✓		
U ac (15-25 kV)	✓	✓		
Catenary detection		✓		
Analog output	3	Up to 8	1	2
Digital output	Option	Up to 8	Option	Option
Logic output	2	Up to 8	0	1



- 1 pantograph for DC network



- 1 pantograph for AC & DC networks

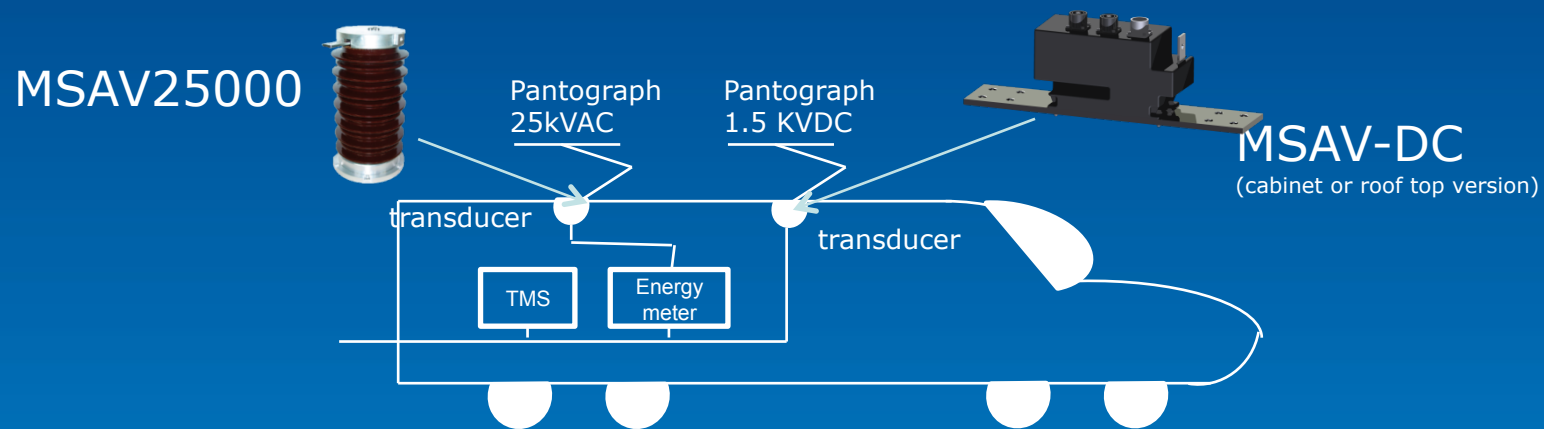


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MSAV25000 / MSAV-DC Applications



2 pantographs for AC & DC network



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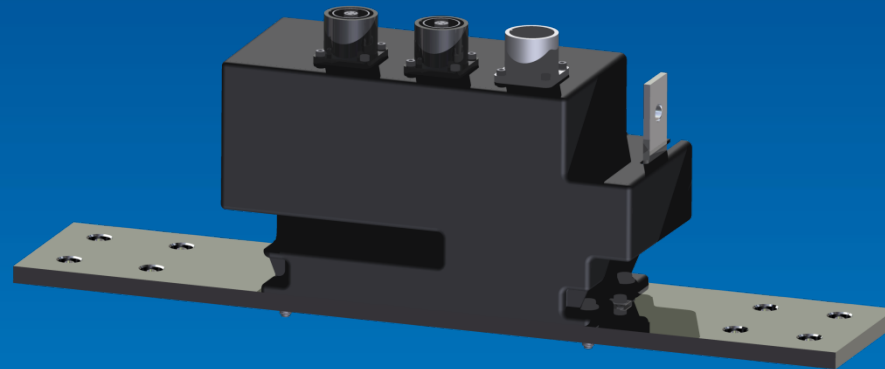
MSAV25000 / MSAV-DC improvements



MSAV25000 + Voltage +
Current + ECF measuring +
Ethernet communication



MSAV-DC (DC voltage + DC
current + ECF + Ethernet
communication





SERVING
SAFETY

Thank you