

Modular master controller system TBC 01



Gessmann's master controller system TBC 01 is specially designed for usage in railway applications. Their robust design which is based on the relevant standards EN-60077, UIC 612 and EN-50155 guarantees low life cycle costs and a maintainability over a period of 35 years.

Technical data

Ambient temperature outside vehicle	-40°C to +50°C->EN 50155 Class T1, T2, T3, TX
Nominal supply voltage	24/ 72/ 110VDC 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, (HL3) (others on demand)
Mechanical endurance	10 million operating cycles
Electrical endurance	Minimum operating cycle class C3/A3 according to EN 60077-2



		Example									
		RC01	72VDC	C2	S1	D2	RSH-02	A2	I	F1	
Basic Unit											
TBC 01											
Power supply											
V1	24VDC										
V2	72VDC										
V3	110VDC										
Output signal analog											
C1	1x current output 4-20mA <i>page 26</i>										
C2	2x current outputs 4-20mA (redundant) <i>page 26</i>										
Output signal digital											
S1	1 contact SAS-02 (snap action switch)										
S2	2 contacts SAS-02 (snap action switch)										
S3	3 contacts SAS-02 (snap action switch)										
Deadman											
D1	Push down 1 contact SAS-01 (snap action switch)										
D2	Push down 2 contacts SAS-01 (snap action switch)										
Handle											
RSH-01	Ball handle <i>page 25</i>										
RSH-02	Conical handle <i>page 25</i>										
RSH-03	Conical handle <i>page 25</i>										
RSH-04	Conical handle <i>page 25</i>										
Actration											
A1	Time dependent <i>page 3</i>										
A2	Position dependent <i>page 3</i>										
Interface											
I1	Mating connector <i>page 2</i>										
I2	Cable outlet with customer specific length <i>page 2</i>										
Frame											
F1	Frame with engraving <i>page 2</i>										

*special / customer specific

Technical details may vary based on configuration or application! Technical data subject to change without notice!



