



Electro Optical Components, Inc.

5460 Skylane Boulevard, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

www.eoc-inc.com | info@eoc-inc.com



Rolling Stock Acceleration Sensor BT Series

BT series are acceleration sensors with integrated band pass fourth order. Mounted at bogie BT sensor systems detect swing movements across the driving direction of locomotives and trains.



Type	BT standard	BT options
Measuring Range	±1	up to ±2 g
Frequency Range ^{*1) *2)}	4...7	please select in range Hz@ 2 ... 10 100%
Operating Voltage ^{*2)}	24 ±20%	110 ±20%, others VDC
Power Consumption	< 100	mA@24V
Output Signal ^{*1) *2)}	4 ... 20	please select from range 4 ... 20 mA
Output Resistance	500	250, other Ω
Connections ^{*2)}		
A	Ground	
B	Operation Voltage	
C	free	all combinations possible
D	Signal -	
E	Signal +	
Housing	Aluminium powder-coated DIN EN 1706 EN AC-AISI 12 (Fe)	
Color ^{*2)}	RAL 9005 black	RAL 7001, RAL7043, other
Impact Resistance	>7 Joule acc. EN 50014	
Protection Class	IP66 acc. EN 60529	

plug **Amphenol** ^{*2)}

standard:
SJTOORT14-5PNO14

options:
SJTOORT14-5SA014
other on request

$$a = (I_{out} - 4mA) / 16 mA$$

a : acceleration in g
I_{out}: output current

Order Information:

Art.-Nr. 6203.03-5.01
BT standard 110VDC

december 2010 – subject to change

^{*1)} selection by integrated band pass filter fourth order

^{*2)} please request your special parameter

valid norms: EN 50125-1 environmental conditions for equipment
EN 50121-2-3 electromagnetic compatibility (EMC)
EN 45545-2 fire prevention at rail vehicles
EN 10204 inspection documents
and EN 50262, EN 50124, EN 55011, EN 55022, EN 60011-2, EN 50155

