



Technical Data

Output signal	CANopen																				
Transducer interface	H																				
Input interface	CANopen																				
CANopen Version	DS301 V3.0, DS406 V2.0																				
CANopen Interface	potential-free																				
System resolution position	5 µm increments configurable																				
System resolution velocity	0.1 mm/s increments configurable																				
Hysteresis	<=1 Digit																				
Repeatability	±1 Digit																				
Sampling rate	1 kHz																				
max.non-linearity	±30µm at 5 µm resolution																				
Temperature coefficient of overall system	(6µm +5ppm x L) /°C																				
Magnet traverse speed	any																				
Supply voltage	24 V DC ±20%																				
Current draw	<100mA																				
Operating temperature	-40...85°C																				
Storage temperature	-40...100°C																				
Shock load	100g / 6ms per IEC60068-2-27																				
Vibration	12g, 10...2000 Hz per IEC 60068-2-6																				
Polarity reversal protected	yes																				
Overvoltage protection	Transzorb protection diodes																				
Dielectric constant	500 V (GND to housing)																				
Enclosure rating per IEC 60529	IP 67 (when BKS-S...IP 67 connector is in place)																				
Housing material	Anodized aluminum																				
Mounting	Compression clamps																				
Connection type	Connector																				
recommended connector	BKS-S92-00, BKS-S94-00																				
RF emission	EN 55 011 Group 1, Class A																				
Static electricity (ESD)	IEC 61000-4-2 Severity Level 3																				
Electromagnetic fields (RFI)	IEC 61000-4-3 Severity Level 3																				
Fast transients (BURST)	IEC 61000-4-4 Severity Level 4																				
Line-carried noise, induced by high-frequency fields	IEC 61000-4-6 Severity Level 3																				
Cable length [m] at Baud rate [kBaud] per CiA DS301	<25 <50 <100 <250 <500 <1000 <1250 <2500 1000 800 500 250 125 100 50 20/10																				
Accessories																					
	<table border="1"> <thead> <tr> <th>Pin assignments</th> <th>Pin</th> <th>Color</th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="5">Control and data signals</td> <td>1</td> <td>WH</td> <td>CAN_GND</td> </tr> <tr> <td>2</td> <td>BN</td> <td>+24 V</td> </tr> <tr> <td>3</td> <td>BU</td> <td>0 V (GND)</td> </tr> <tr> <td>4</td> <td>GY</td> <td>CAN HIGH</td> </tr> <tr> <td>5</td> <td>GN</td> <td>CAN_LOW</td> </tr> </tbody> </table>	Pin assignments	Pin	Color		Control and data signals	1	WH	CAN_GND	2	BN	+24 V	3	BU	0 V (GND)	4	GY	CAN HIGH	5	GN	CAN_LOW
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