



Selection criteria	TSX 38 MAG incremental, commutation signal	
Speed and rotation direction detection	■	
Speed and position control	■	
Compact and robust design	■	
High resolution	▲	
Cost effective	■	

Specifications		TSX 38 MAG with a axial cable outlet		TSX 38 MAG with a radial cable outlet	
Supply voltage V_{cc}	V	5V ± 0.5		5V ± 0.5	
Typical current draw	mA	18		18	
Max. operating frequency	kHz	500		500	
Max elec. speed	rpm	14 000		14 000	
Axial plug manufacturer	Molex	Pin 1 NTC-		Pin 1 V_{cc}	
Axial plug	Part no. 501331-1407	Pin 2 NTC+		Pin 2 GND	
Radial plug manufacturer	JST	Pin 3 N.C.		Pin 3 $\bar{A}^*$	
Radial plug	Part no. SM14B-NSHSS-TB	Pin 4 H3		Pin 4 A^*	
		Pin 5 H2		Pin 5 $\bar{B}^*$	
		Pin 6 H1		Pin 6 B^*	
		Pin 7 Not connect		Pin 7 Not connect	
		Pin 8 Not connect		Pin 8 Not connect	
		Pin 9 B^*		Pin 9 H1	
		Pin 10 $\bar{B}^*$		Pin 10 H2	
		Pin 11 A^*		Pin 11 H3	
		Pin 12 $\bar{A}^*$		Pin 12 N.C.	
		Pin 13 GND		Pin 13 NTC+	
		Pin 14 V_{cc}		Pin 14 NTC-	
		*Output signal: EIA-Standard RS 422/Output current per channel: ± 20 mA			
300 mm compatible cable adaptor for		EPOS4: 708583	EPOS4 Disk: 865360	EPOS4: 708586	EPOS4 Disk: 865359
		ESCON: 708584		ESCON: 708587	

Modular system	Page	Dimensions of standard configuration	1:2 Notice
EC frameless			H1 is calibrated to commutation angle zero, in accordance with page 66.
DT 38 S	341		Rotor and stator are paired by maxon.
DT 38 M	342		Mechanical dimensions available in the EC frame- less DT Installation Manual.
		Details Masse siehe Montageanweisung	
		Details dimensions see assembling manual	
			
			