

TCW4 - SSI ABSOLUTE SENSOR, NON-CONTACTING

TCW4-SSI

Non-contacting absolute sensor, SSI, multiturn

- Magnetic SSI absolute multi-turn modular sensor
- Resolution 12bit, turn counting up to 16bit
- Robust design, shock and vibration resistant
- IP67, IP69K available



PRODUCT DESCRIPTION

ORDERING REFERENCE

Order number							
	Type	Supply voltage	Output	Code	Resolution	Connection	Orientation
TCW4: Absolute multi-turn	00: Modular	P: 5-30 Vdc	SS : SSI	B: Binary G: Gray	12B13D5: 25-bit 12B12D4 24-bit	S5 : SSI - PUR cable	R005 : 50cm radial cable
Ex. TCW4_	00 //	P	SS	// G //	12B13D5	S5	R005

SPECIFICATIONS

Sensor type	Absolute
Housing diameter	52 mm
Resolution	Max. 12 bit resoluutiolle ja 16 bit kierroksille
Connection Thread	Cable
IP Class	IP67
Supply Voltage DC Min	5 V DC
Supply Voltage DC Max	30 V DC

Temperature range from	-40 °C
Temperature range to	85 °C
Output	SSI
Version	Multiturn

STANDARD SSI CONNECTION

Ref.	Type	+Vcc	0 V	Clk+	Dat0+	RAZ	Dat0-	Clk-	Direction	Ground
SS	SSI code PUR S23/S23	Brn/GN Brown/Green	Wh/GN White/Green	GN Green	GN Gray	Bl Blue	Pk Pink	Brn Brown	Wh White	General Binding

DIRECTION input

RAZ / RAZ input

100ms (typical shift)

Position

Position = 0 (RAZ)

X F R A X

Note: Do not connect other signals, connect DIRECTION and RAZ to a potential RAZ or DV if not used.

Level 1: 0 V
Level 2: 0.7V_{CC}
Effective: 0.5V

min
max
Increasing
CW
Decreasing
CCW

min
max
Level 1: 0 V
Level 2: 4.5V
Effective: 0.5V

min
max
Level 1: 0 V
Level 2: 4.5V
Effective: 0.5V

TCW4 ORDERING REFERENCE (Contact the factory for special versions - see dimensions & connections.)

TCW4:	Mechanics	Supply	Output stage	Code	Resolution	Connection	Orientation
Magnetic Absolute multi turn encoder	00:	P:	SS:	B:	12B1305:	SS:	R005:
				G:	12B1204:	SS	50cm radial cable
Ex: TCW4:	00 //	P //	SS //	G //	12B1305 //	SS	R005

