

TEMP MA4201 series



MA4201

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Redundant encoder for positioning purposes. The MA4201-series is a range of encoders supporting combinations. Might be the fastest and most enduring encoder in the industry. Now in an improved version since 2025

Main features

- ✓ High temparture
- ✓ Life time warrenty

Electrical Specs

Power Supply	5Vdc or 5-30Vdc (SELV)
Current Consumption	Max 40mA without load
Output Circuit	T (TTL) or H (HTL)
Low Level Output Volt	Max <0,5 V at 20 mA load and 20°C
High Level Output Volt	Min >Vcc-1V at 20mA load and 20°C
Max Load	70mA
Polarity Protected	✓
Transient Protected	✓

Connections

A Radial 16-pin M23 Male Connector, CCW	B Radial cable, 5m length
C Terminal box with cable gland for ø6-ø12mm	

Mating Cables

M8SR2, Snap Straight 2m 4x0,25 PUR/PUR
M8SR2, Snap Straight 5m 4x0,25 PUR/PUR
M8SR2, Snap Angled 2m 4x0,25 PUR/PUR
M8SR2, Snap Angled 5m 4x0,25 PUR/PUR

Signal Accuracy

Dividing Error Max	$\pm 50 \text{ el}^{\circ}$
Channel Separation	$90 \pm 50 \text{ el}^{\circ}$
Max Frequency	100KHZ
Operating Temperature	-40 to 80C °

Functions

Signal	Cable 1-2	1S-2S	Cable M8
1	Green	Green	Blue
2	Yellow	Yellow	Black
+V	Red	Brown	Brown
0V	Blue	White	White
Gnd		Screen	

Mechanical Specification

Housing	Stainless steel AISI 316 or Aluminum, electrically conductive for increased interference protection
Sealing	IP67 dust and splash proof. IP66 at shaft outlet
Bearings	Permanently greased
Bearing Load At	1000rpm
Bearing Axial	<250 N
Bearing Radial	<350 N
Max RPM	3 000 (12 000)
Vibration	20g 20-2000Hz
Shock	200g - 11ms
Weight	5,5 kg (AISI316), 2,2 kg (Alu)

Other

First time in use	2025-04-12
Material	Gold
Warrenty	5 years
Color	red

Ordering Key

Model	MA506
Model id	
Shaft 4 or 6mm	6
Pulserate 1-125	125
Connection Connection type	1
Cable Length X = meter cable	X

Example

MA506 - 6 - 125 - 1 - X

