

## 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**

Current Consumption	Max 40mA
Output Circuit	HTL
Low Level Output Volt	Max < 20V at 20mA load and 20c
High Level Output Volt	Min > Vcc-20V at 30mA load and 40c
Max Load	200mA
Polarity Protected	✓
Transient Protected	✗

**Connections**

1. Axial cable, 1m	1S. Axial cable with screen
2. Radial cable, 1m	2S. Radial cable with screen
5. Special cable	9. Axial 4-pin M8 mate connection

**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
<b>1</b>	Green	Green	Blue
<b>2</b>	Yellow	Yellow	Black
<b>+V</b>	Red	Brown	Brown
<b>0V</b>	Blue	White	White
<b>Gnd</b>		Screen	

**Mechanical Specification**

Housing	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	30N (50 000h bearing life)
Bearing Radial	30N (50 000h bearing life)
Max RPM	3 000 (12 000)
Vibration	20g 20-2000Hz
Shock	200g - 11ms
Weight	~60g (without cable)

**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**

