- 8x DIGITAL INPUTS
- 2x PRECISE UNIVERSAL ANALOGUE INPUTS
- 5x DIGITAL OUTPUTS - RELAYS, OC, PWM
- 2x UNIVERSAL ANALOGUE OUTPUTS
- LED SIGNALISATION OF INPUT STATE
- POWER SUPPLY 24 V AC/DC OR 80...230 V AC/DC

ANALOGUE INPUTS COMBINED

OMC 8020 - 8DI.2UNIC is a precise 2-channel analogue input plus 8 universal digital inputs.

OMC 8020 - 8DI.2UNIC.5DOC is a precise universal 2-channel analogue input plus 8 universal digital inputs and 5 outputs with open collector.

OMC 8020 - 8DI.2UNIC.5DOR is a precise universal 2-channel analogue input plus 8 universal digital inputs and 5 relay outputs.

OMC 8020 - 8DI.2UNIC.2AO is a precise universal 2-channel analogue input plus 8 universal digital inputs and 2 universal analogue outputs.

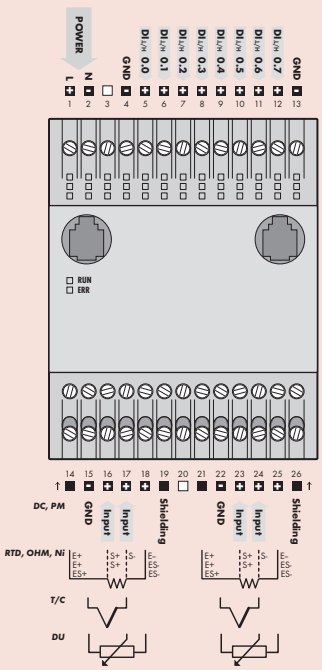
EXPANSION MODULES
OMC 8020 - 8DI.2UNIC
OMC 8020 - 8DI.2UNIC.5DOC
OMC 8020 - 8DI.2UNIC.5DOR
OMC 8020 - 8DI.2UNIC.2AO

	OMC 8020 - 8DI.2UNIC	OMC 8020 - 8DI.2UNIC.5DOC	OMC 8020 - 8DI.2UNIC.5DOR	OMC 8020 - 8DI.2UNIC.2AO
OUTPUTS				
Number	–	5	5	2
Type	–	transistor (OC)	relays	analogue
Function	–	ON/OFF, PWM (100 kHz)	ON/OFF	0...2/5/10/±10 V 0...5 mA, 0/4...20 mA
Maximum switching current	–	300 mA	10 A	–
Maximum switching voltage	–	30 V	250 VAC/24 VDC	–
Maximum switching power	–	9 W	2500 VA/240W	–
Accuracy	–	–	–	0,1% of range
Response time	–	< 0,15 ms	< 0,15 ms • 8 ms	< 1 ms
LED signalisation of output state, broken loop detection	–	yes	yes	yes
INPUTS - ANALOGUE				
Number of inputs	2	2	2	2
Type	analogue – universal	analogue – universal	analogue – universal	analogue – universal
Isolated inputs	yes	yes	yes	yes
Measuring range	±60/±150/±300/1200 mV 0...5 mA/0/4...20 mA/ ±2/±5/±10/±40 V 0...0,1/1/10 /100 kΩ Pt 50/100/500/1 000 Cu 50/100 Ni 1 000/10 000 J/K/T/E/B/S/R/N/L Lin. potentiom. (min. 500 Ω)	±60/±150/±300/1200 mV 0...5 mA/0/4...20 mA/ ±2/±5/±10/±40 V 0...0,1/1/10 /100 kΩ Pt 50/100/500/1 000 Cu 50/100 Ni 1 000/10 000 J/K/T/E/B/S/R/N/L Lin. potentiom. (min. 500 Ω)	±60/±150/±300/1200 mV 0...5 mA/0/4...20 mA/ ±2/±5/±10/±40 V 0...0,1/1/10 /100 kΩ Pt 50/100/500/1 000 Cu 50/100 Ni 1 000/10 000 J/K/T/E/B/S/R/N/L Lin. potentiom. (min. 500 Ω)	±60/±150/±300/1200 mV 0...5 mA/0/4...20 mA/ ±2/±5/±10/±40 V 0...0,1/1/10 /100 kΩ Pt 50/100/500/1 000 Cu 50/100 Ni 1 000/10 000 J/K/T/E/B/S/R/N/L Lin. potentiom. (min. 500 Ω)
Resolution	24 bits	24 bits	24 bits	24 bits
Overload capacity	10x	10x	10x	10x
Reference junction compensation	yes	yes	yes	yes
Accuracy	0,1 % of range	0,1 % of range	0,1 % of range	0,1 % of range
Rate	40 meas./s	40 meas./s	40 meas./s	40 meas./s
LED signalisation of input state	yes	yes	yes	yes
INPUTS – DIGITAL				
Number of inputs	8	8	8	8
Measuring range	12...250 V AC/DC	12...250 V AC/DC	12...250 V AC/DC	12...250 V AC/DC
Max. current	2,5 mA	2,5 mA	2,5 mA	2,5 mA
Response time	20 ms	20 ms	20 ms	20 ms
LED signalisation of input state	yes	yes	yes	yes

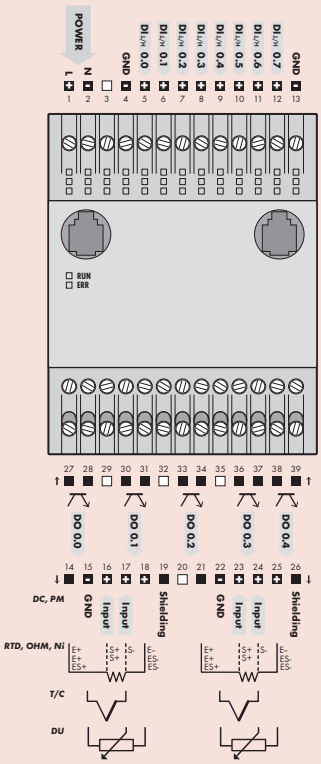
	OMC 8020 - 8DI.2UNIC	OMC 8020 - 8DI.2UNIC.5DOC	OMC 8020 - 8DI.2UNIC.5DOR	OMC 8020 - 8DI.2UNIC.2AO
SPECIFICATIONS				
Module width	72 mm	72 mm	72 mm	72 mm
Maximum consumption	5 VA	5 VA	5 VA	5 VA
Power supply	24 V AC/DC 80...250 V AC/DC	24 V AC/DC 80...250 V AC/DC	24 V AC/DC 80...250 V AC/DC	24 V AC/DC 80...250 V AC/DC
Working temperature	-20°...60°C			
Cover	IP 40			
Dielectric strength	4 kVAC for the duration of 1 minute between supply and output			
Insulation resistance	for pollution degree II, measuring cat. III., 300 V (ZI), 150 (DI)			
Electric safety	EN 61010-1, A2			
EMC	EN 61326-1			

CONNECTION

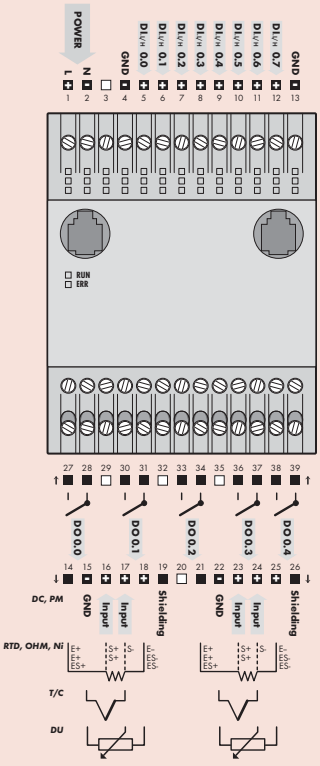
OMC 8020 - 8DI.2UNIC



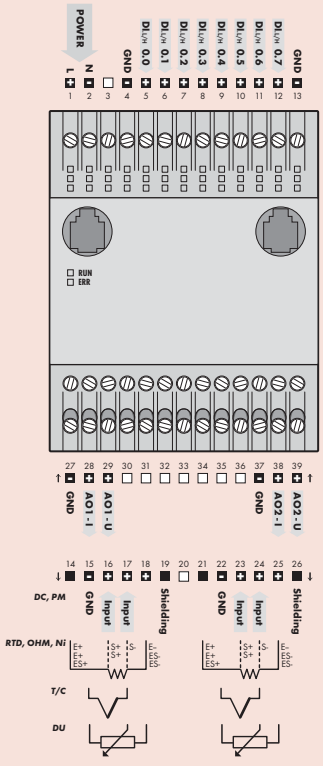
OMC 8020 - 8DI.2UNIC.5DOC



OMC 8020 - 8DI.2UNIC.5DOR



OMC 8020 - 8DI.2UNIC.2AO



ORDER CODE

OMC 8020 - 8DI.2UNIC -

Power supply	24 V AC/DC, isolated	**0**
	80...250 V AC/DC, isolated	**1**

OMC 8020 - 8DI.2UNIC.5DOC -

Power supply	24 V AC/DC, isolated	**0**
	80...250 V AC/DC, isolated	**1**

OMC 8020 - 8DI.2UNIC.5DOR -

Power supply	24 V AC/DC, isolated	**1**
	80...250 V AC/DC, isolated	**2**

OMC 8020 - 8DI.2UNIC.2AO - □□

Power supply	24 V AC/DC, isolated	**2**	
	80...250 V AC/DC, isolated	**4**	
Number of analogue outputs	none		**0**
	1x output		**1**
	2x output		**2**