



Single-phase  
energy meters  
DMED112  
single-phase  
1

Product designation

Product type designation

Type

DIN rail module number

**Auxiliary supply  $U_s$**

Operational frequency

min	Hz	50
max	Hz	60

Power consumption

Max	VA	1
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Power dissipation Max

W	0.4
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**Measuring voltage inputs**

Rated voltage ( $U_e$ )

phase-neutral	VAC	110...240
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Operating voltage range

phase-neutral	VAC	93...264
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Connection method

Direct

**Current**

IEC maximum ( $I_{max}$ )

A	40
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IEC minimum ( $I_{min}$ )

A	0.25
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IEC rated ( $I_{ref-Ib}$ )

A	5
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IEC start ( $I_{st}$ )

mA	20
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Transition ( $I_{tr}$ )

A	0.5
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**Accuracy**

Active energy	Class 1 (IEC/EN 62053-21)
Reactive energy	Class 2 (IEC/EN 62053-23)

**Output characteristics**

LED Pulse rate

pulse/kWh	1000
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LED Pulse duration

ms	30
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Static output external voltage

VDC	10...30
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Static outputs Maximum current

mA	50
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**Insulations**

Rated insulation voltage  $U_i$  IEC/EN

V	250
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Rated impulse withstand voltage  $U_{imp}$

kV	6
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Operating frequency withstand voltage

kV	4
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**Mechanical features**

Housing type

Polyamide

Terminals type

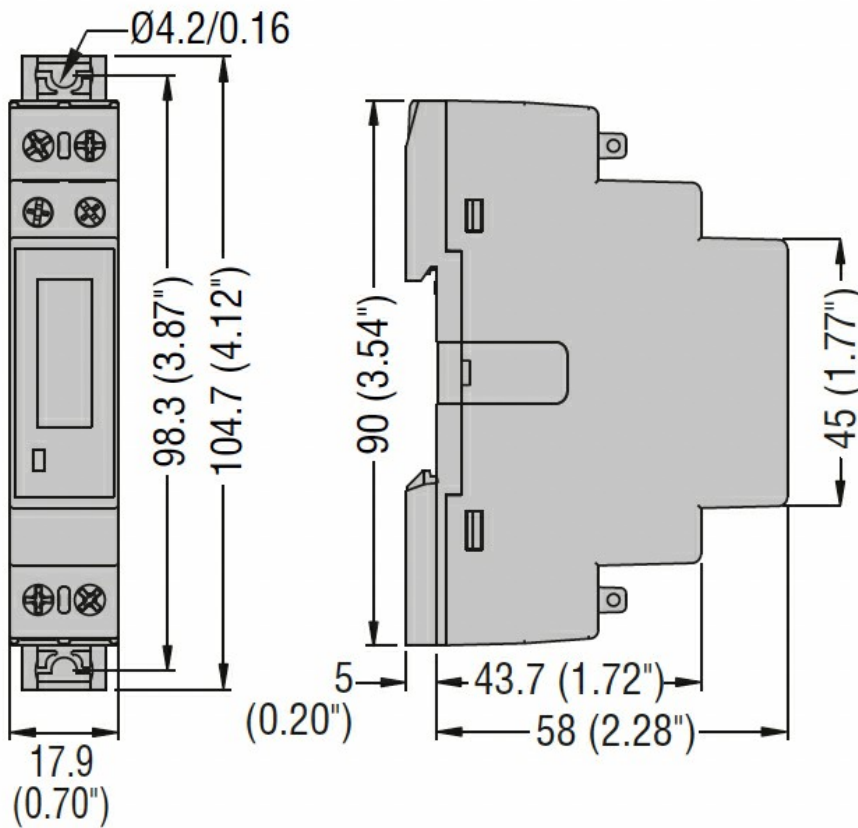
Fixed

Conductor cross section

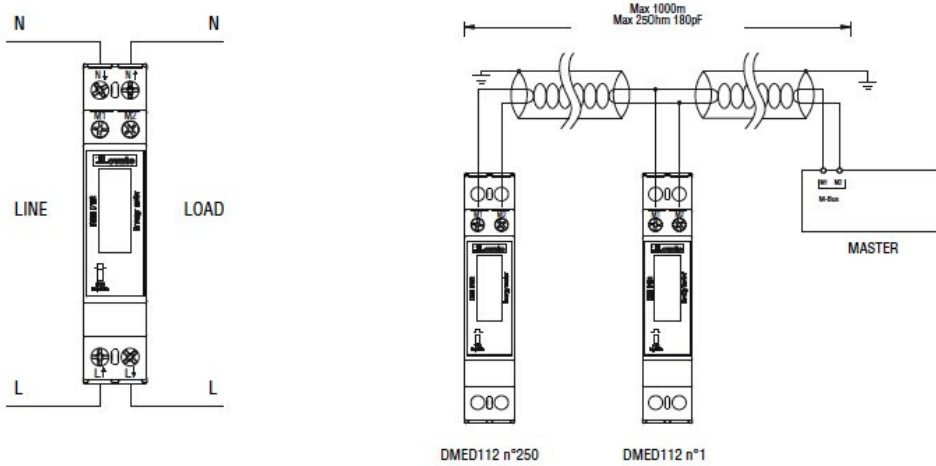
min	mm <sup>2</sup>	1.5
Max	mm <sup>2</sup>	10
min	AWG	16

	Max	AWG	6
Tightening torque (Max)		Nm	1.5
		lbin	14
Fixing			Din rail
Weight		g	90
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			
	min	°C	-25
	max	°C	+70
Relative humidity		%	<80
Maximum Pollution degree			2
Mechanical environment			Class M1
Magnetic environment			Class E2

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

Compliance

IEC/EN 61000-6-2

IEC/EN 61000-6-3

IEC/EN 61010-1

Certificates

CB

RCM

**ETIM classification**

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter