



Single-phase energy meters  
DMED130LM  
single-phase  
2

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 | 4.8 |
|-----|----|-----|

Power dissipation Max

|   |     |
|---|-----|
| W | 1.4 |
|---|-----|

**Measuring voltage inputs**

Rated voltage ( $U_e$ )

|               |     |           |
|---------------|-----|-----------|
| phase-neutral | VAC | 220...240 |
|---------------|-----|-----------|

Operating voltage range

|               |     |           |
|---------------|-----|-----------|
| phase-neutral | VAC | 184...264 |
|---------------|-----|-----------|

Connection method

Direct

**Current**

IEC maximum ( $I_{max}$ )

|   |    |
|---|----|
| A | 63 |
|---|----|

IEC minimum ( $I_{min}$ )

|   |     |
|---|-----|
| A | 0.5 |
|---|-----|

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

|   |    |
|---|----|
| A | 10 |
|---|----|

IEC start ( $I_{st}$ )

|    |    |
|----|----|
| mA | 40 |
|----|----|

Transition ( $I_{tr}$ )

|   |   |
|---|---|
| A | 1 |
|---|---|

**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 |
|-----------|------|

**Insulations**

Rated insulation voltage  $U_i$  IEC/EN

|   |     |
|---|-----|
| V | 250 |
|---|-----|

Rated impulse withstand voltage  $U_{imp}$

|    |   |
|----|---|
| kV | 6 |
|----|---|

Operating frequency withstand voltage

|    |   |
|----|---|
| kV | 4 |
|----|---|

**Mechanical features**

Housing type

Polyamide

Terminals type

Fixed

Conductor cross section

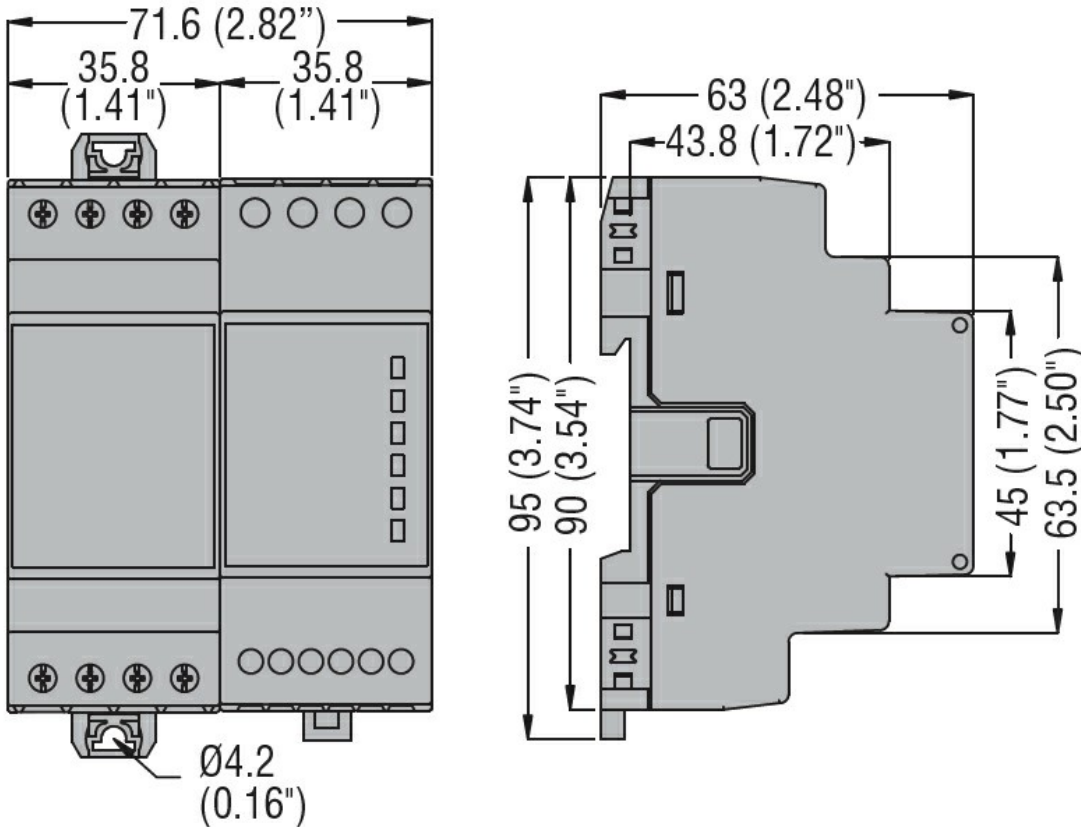
|     |                 |      |
|-----|-----------------|------|
| min | mm <sup>2</sup> | 2.5  |
| Max | mm <sup>2</sup> | 16   |
| min | AWG             | 14   |
| Max | AWG             | 6;10 |

Tightening torque (Max)

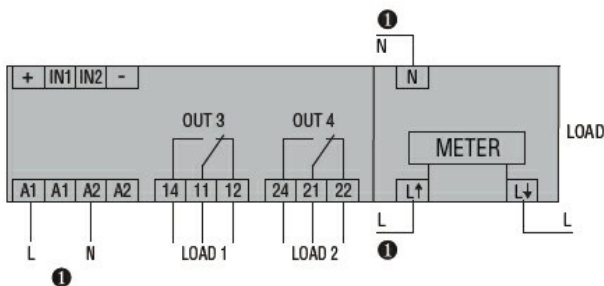
|    |   |
|----|---|
| Nm | 2 |
|----|---|

|                           |      |        |
|---------------------------|------|--------|
| Fixing                    | lbin | 26.5   |
| Weight                    | g    | 148    |
| <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      |

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

IEC/EN 50470-1  
IEC/EN 61010-1

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Certificates

EAC

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RCM

ETIM classification

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter