

## Three-phase energy meter DSZ12D-3x65A with display and MID approval

**Only skilled electricians may install this electrical equipment  
otherwise there is the risk of fire or electric shock!**

Temperature at mounting location: -25°C up to +55°C.

Storage temperature: -25°C up to +70°C.

Relative humidity: annual average value <75%.

### Maximum current 3x65A. Standby loss 0.5 watt per path only.

Modulair device for DIN-EN 60715 TH35 rail mounting in distribution cabinets with IP51 protection class.

4 modules = 70mm wide and 58mm deep.

Accuracy class B (1%). With S0 interface as standard.

It measures active energy by means of the current between input and output.

The internal power consumption of 0.5 watt active power per path is neither metered nor indicated.

1, 2 or 3 phase conductors with max. currents up to 65A can be connected. The inrush current is 40mA.

The N terminal must always be connected.

**The 7 segment LC display is also legible twice within a period of 2 weeks without power supply.**

Power consumption is shown by a bar flashing at a rate of 100 times per kWh.

**Designed as standard for using as double-tariff meter:** Switch over to a second tariff by applying 230V to terminals E1/E2.

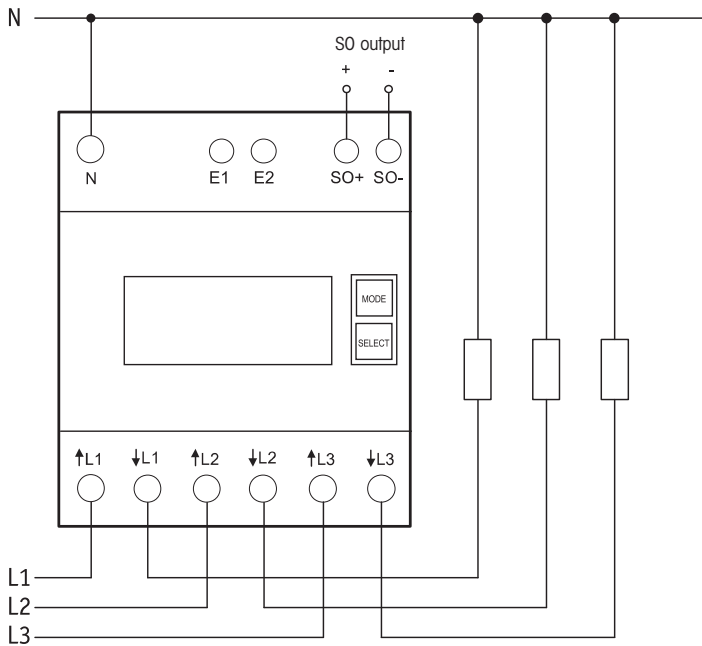
On the right next to the display are the keys MODE and SELECT. Press them to scroll through the menu. First the **background lighting** switches on. The display then shows the total active energy per tariff, the active energy of the resettable memory RS1 or RS2 as well as the instantaneous values of consumption, voltage and current per phase.

### Error message (false)

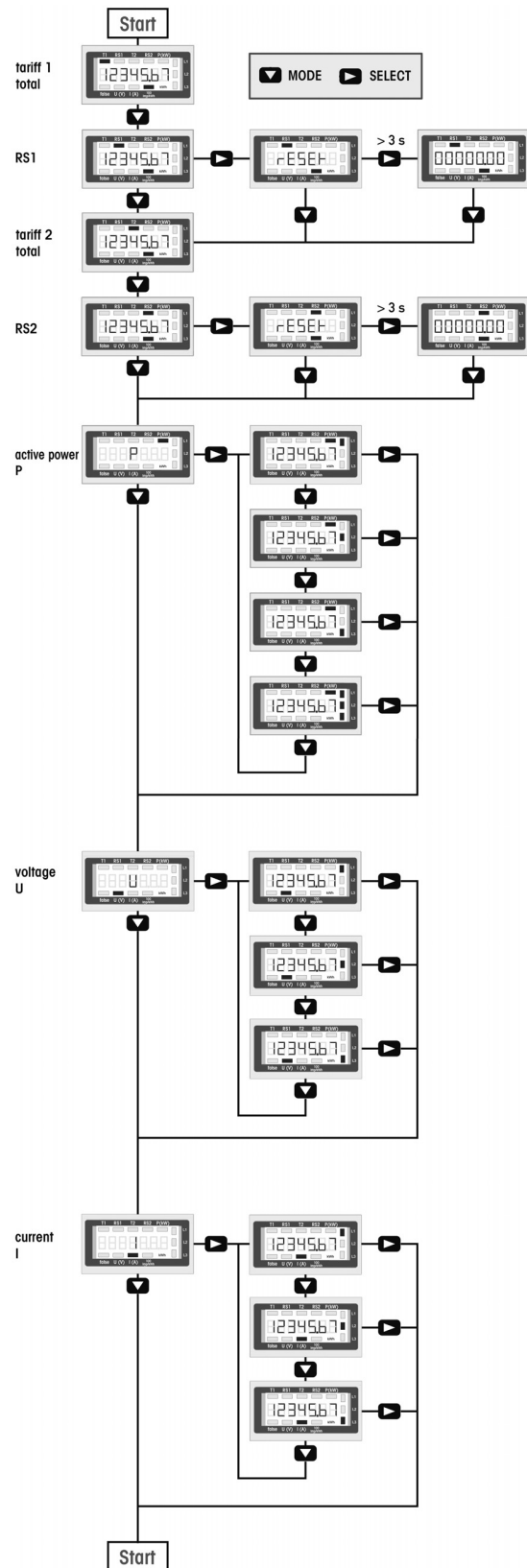
When the phase conductor is missing or the current direction is wrong 'false' and the corresponding phase conductor are indicated on the display.

### Typical connection:

4-wire-connection 3x230/400V



### Menu guidance



#### Technical data

Rated voltage, extended range	3x230/400V, 50Hz, -20%/+15%
Reference current $I_{ref}$ (Limiting current $I_{max}$ )	3x10 (65) A
Internal consumption active power	0.5 W per path
Display	LC display 7 digits, therefrom 1 or 2 digits after the decimal point
Accuracy class $\pm 1\%$	B
Inrush current according to accuracy class B	40 mA
Operating temperature	-25/+55°C
Interface	Pulse interface S0 according to DIN EN 62053-31, potential free by opto-coupler, max. 30V DC/20mA and min. 5V DC, impedance 100 ohms, pulse length 30ms, 1000 Imp./kWh
Terminal cover sealable	Terminal cover claps
Protection degree	IP50 for mounting in distribution cabins with protection class IP51
Maximum conductor cross section	N and L terminals 16 mm <sup>2</sup> , S0 terminals 6 mm <sup>2</sup>
EC type examination certificate	TCM 221/14 - 5225
Mechanical environmental conditions	class M1
Electromagnetic environmental conditions	class E2

#### EC DECLARATION OF CONFORMITY

File name FQKZ054-LDE

Product **Three-phase energy meter with MID approval**

Type designation **DSZ12D-3x65A**

EC-type examination certificate TCM 221/14 – 5225

The manufacturer herewith declares, on his own responsibility that the designated products which this certificate refers to, are in accordance with the following harmonized standards or normative documents as well as with the following Directives of the European Parliament and of the Council ( relevant version ):

DIN EN 50470	parts 1 and 3 : May 2007 ( electronic meters )
2004 / 22 / EC	measuring instruments ( valid until 19 April 2016 )
2014 / 32 / EU	measuring instruments ( valid from 20 April 2016 )
2004 / 108 / EC	electromagnetic compatibility ( valid until 19 April 2016 )
2014 / 30 / EU	electromagnetic compatibility ( valid from 20 April 2016 )
2011 / 65 / EU	restriction of the use of certain hazardous substances ( RoHS Directive )

The designated products are placed on the market by ELTAKO GmbH,  
Hofener Straße 54, D-70736 Fellbach.

Notified body ČMI Český metrologický institut , No. 1383  
Okružní 31, CZ – 638 00 Brno

Manufacturer Shenzhen Lodian Electronics Co., Ltd.  
3/F, Building 107, 1<sup>st</sup> Nanyou Industrial Zone  
Nathan District, Shenzhen, PC518054 China

Place, Date Shenzhen, 15 March 2016

Signature

This declaration proves the compliance with the above-mentioned EC Directives but it does not include any assurance of properties.  
Security advices of the provided product information have to be noticed.

#### Must be kept for later use!

We recommend the housing for operating instructions GBA12.

#### Elfako GmbH

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