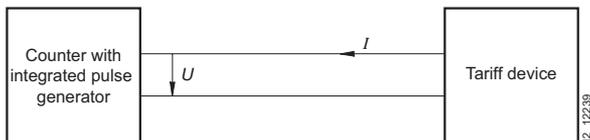


## Schematics

### S0 interfaces

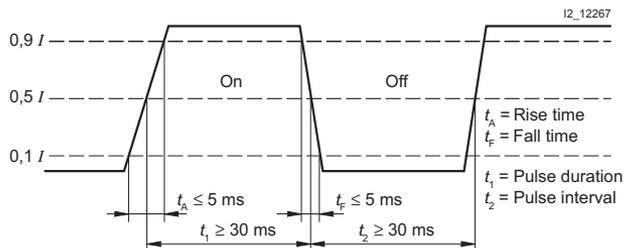
The S0 interface is a current interface for pulse transmission between a counter with integral pulse generator device and tariff rate device.



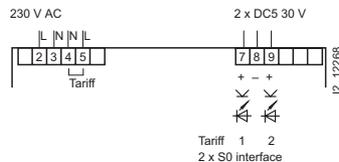
- $U$ : Voltage at terminals of tariff device  
 $I$ : Current via counter with integrated pulse generator

The tariff rate device is connected to the S0 interface of the counter over a 2-wire conductor and - acting as a passive electrical two-pole - supplies the pulse generator with a direct current.

The following diagram shows the dependency of the current path on the time according to DIN 43864.



The following diagram shows the pulse output (S0-interface) for a 2-tariff counter: e.g. rate 1 → normal rate, rate 2 → special rate.



For pulse recording with devices from other manufacturers (pulse counters or digital inputs), a voltage within the range of 5 ... 30 V DC must be applied to the output terminals of the S0 interface. The optocoupler operates as the switch. In order to prevent overloading, the current must not exceed a max. of 20 mA.

The pulse duration is 125ms. The minimum pulse interval is also 125 ms.

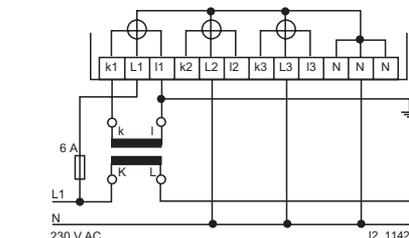
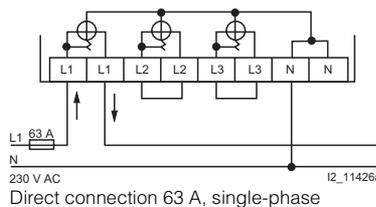
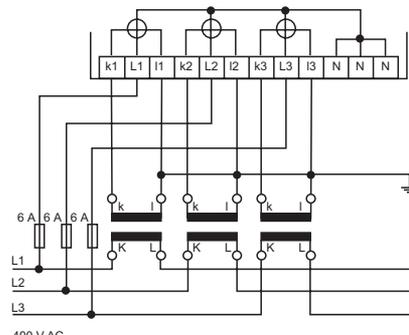
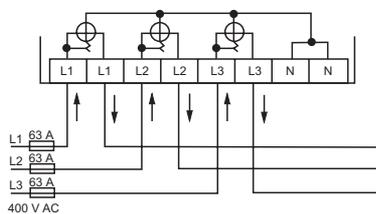
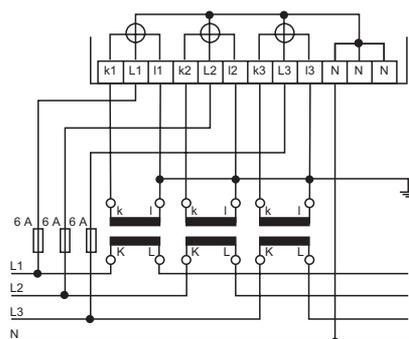
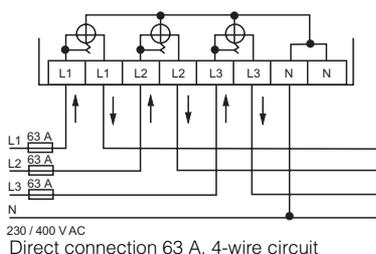
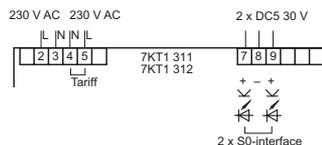
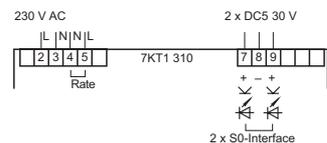
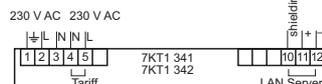
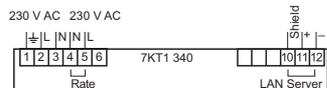
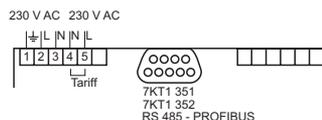
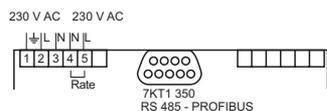
### Grounding terminal

The interpolation point grounding terminals required for transmission only serve to shield the transmission cables and do not have a protective function.

### Instructions for the connection of transformer counters

*In the case of cross-section reduction, a short-circuit resistant cable is required for the power supply of terminals 2, 5 and 8, depending on the fusing for phases L1, L2, L3. A fuse of 6 A is recommended for line protection.*

*Current transformers must not be operated with open terminals as this can result in dangerously high voltages, which may cause personal injury and/or property damage. It can also lead to a thermal overload of the transformers.*



I2\_11426a

I2\_11427