DAT 25
POWER-LINE TRANSDUCERS

T25-WH

ACTIVE ENERGY

The T25-WH are electronic transducers converting active energy in single or three phase balanced or unbalanced systems to simultaneously produce a digital pulse output for cumulative energy signal.

Model

T25-WH10 - single phase watt-hour transducer
T25-WH12 - 3ph 3w bal. load watt-hour transducer
T25-WH13 - 3ph 4w bal. load watt-hour transducer
T25-WH20 - 3ph 3w unbalanced load watt-hour transducer
T25-WH30 - 3ph 4w unbalanced load watt-hour transducer

General Specifications

Test voltage
4kV AC rms 1min between terminal/case
2kV AC rms 1min between input/output/auxillary according to IEC801-4

Impulse test
5kV, 1.2/50μs according to IEC 255-4

Noise test
2.5kV, 1MHz according to IEC 255-22-1

Radio Screening
RFI degree complies with VDE0875

Working condition
-5 °C to 60 °C, 20-99% RH
non condensing

Storage condition
-20 °C to 70 °C, 20-99% RH
non condensing

Humidity
JWE operation class according to DIN 40040

Stability
100 ppm / °C, < ± 0.2% drift per year, non cumulative

Magnetic effect
<0.05% change 1M centre 100AT, synchronized with line frequency

Aux power effect
<0.005% per volt change

Technical Specifications

Input

Voltage
69V (3ph 4w), 120V, 240V or 415V, ± 25%

Burden
0.2VA

permissible overload
1.25 X rated voltage continuous

Current
1A, 5A

Burden
0.3VA typically

permissible overload
2 X rated cotinuous,
10 X rated - 10secs,
25 X rated - 2 secs,
50 X rated - 1 sec.

Frequency
50 or 60 Hz, ± 2hz

Output

Output rating (digital)
Open collector type - max.30V/30mA;
reed relay type - max. 50V/40mA
export pulse optional

Accuracy (23 ± 5 °C)
± 0.2% RO according to IEC 688-1

Ripple Factor
less than 0.5% p-p

Response time
<400ms

Output Adjustment
span & zero adjustments where applicable

Auxillary Power Supply

Standard Range
110V, 220V ± 20% 50/60Hz, < 4VA

Options
self power and other AC power supplies up to 440V ac on request. DC powered models available at additional costs

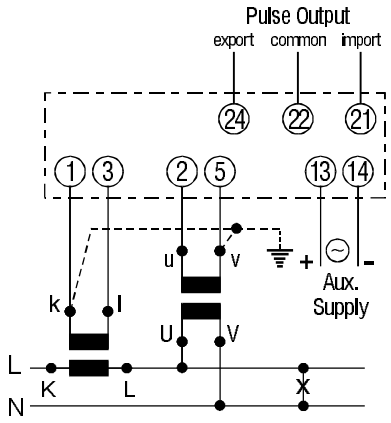
Physical Specifications

Dimensions
100W x 78H x 116D mm

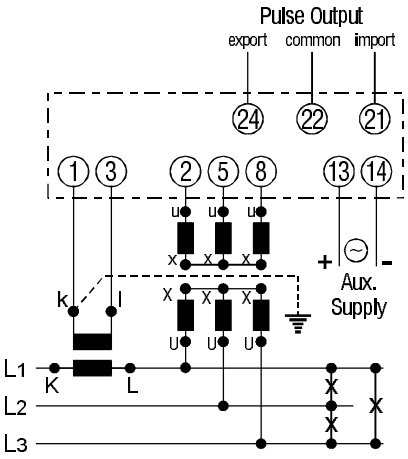
Enclosure code
IP 50 (case)
IP 30 (terminal)
according to IEC 529/DIN40050

Wiring Connections

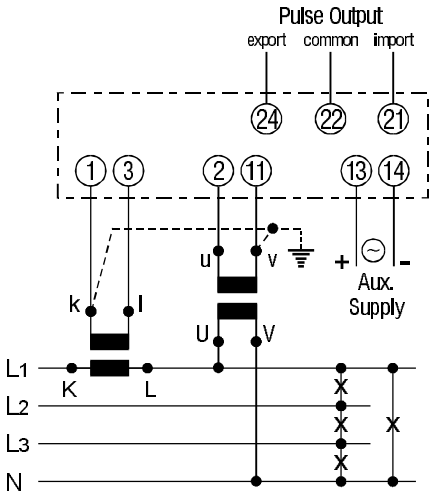
T25-WH



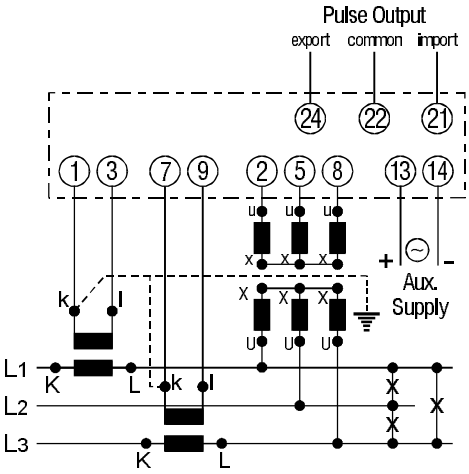
Single Phase ~ T25-WH10



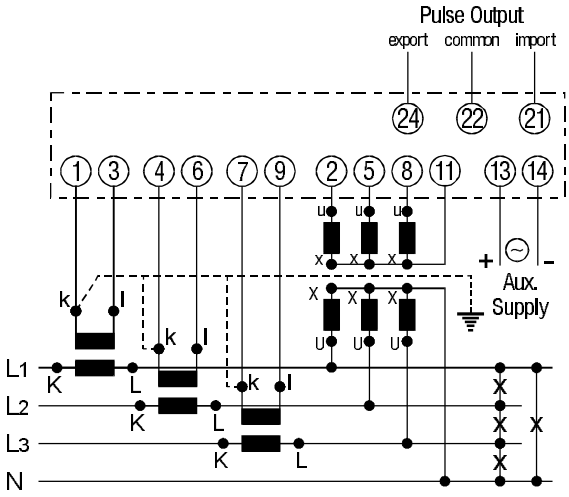
3Phase 3Wire Balanced Load
T25-WH12



3Phase 4Wire Balanced Load
T25-WH13



3Phase 3Wire Unbalanced Load
T25-WH20



3Phase 4Wire Unbalanced Load
T25-WH30

Dimensional Drawings