Pulse counters, electromechanical

Mini counters	5 digits with reset (AC+DC)	W15



The mini totalizers W15 are manually resettable and have been designed for various front panel sizes in a wide variety of applications.

They offer an excellent price / performance ratio and are easy to operate.

Characteristics

- 5-digit miniature pulse counter, adding with manual reset.
- Low power consumption.
- Available for all common DC and AC voltages.
- DIN housing 48 x 24 mm available.

Benefits

- Long service life (50 million pulses).
- Ideal for battery operation and electronic switching operations.

Applications

Machines and appliances, battery-powered devices, heat and water consumption measurement, establishing tolls and charges, general quantity counting.

Type series

Description	*Panel mount dimensions*	*Housing*	*Display*	*Type*
Panel mount with mounting clip, 34 x 23 mm [1.34 x 0.91"]	31 x 20 mm [1.22 x 0.79"]	plastic	front side	**W15.21**
Panel mount with mounting clip, 48 x 24 mm [1.89 x 0.94"]	45 x 22 mm [1.77 x 0.87"]	plastic	front side	**W15.51**

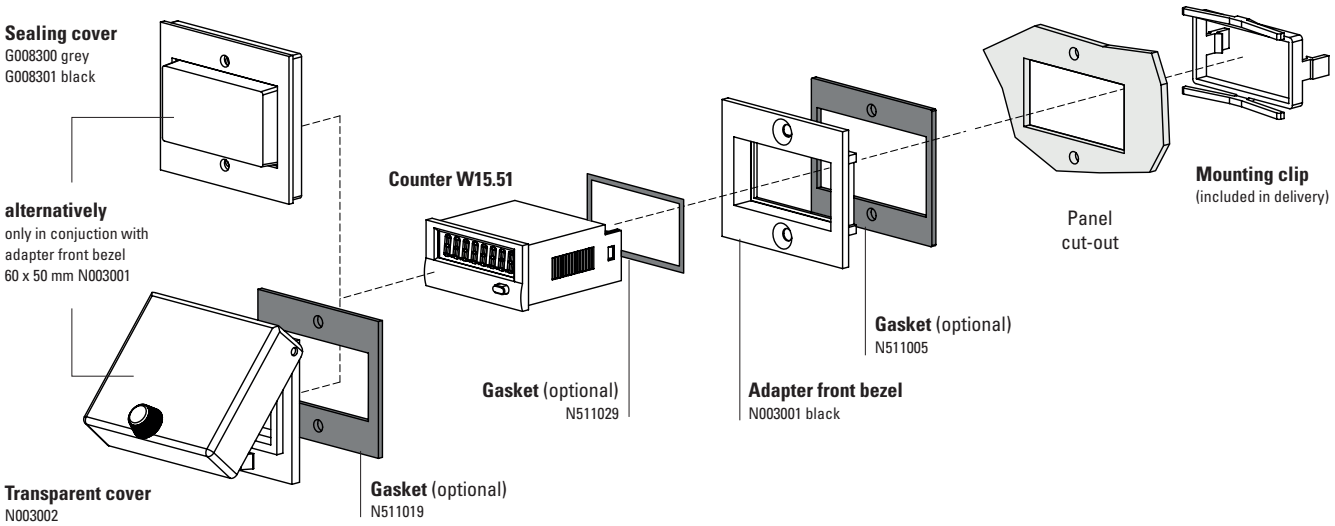
Order information

- Art. no.
- For special voltages, please give type, voltage, kind of voltage and series e.g.:
  W15.21, 4.5 V DC/0 black

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Accessories / Mounting examples (for W15.51 only)



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		**53 x 28 mm [2.09 x 1.10“]**	for cut-out 50 x 25 mm [1.97 x 0.98“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	grey black anthracite	**T008164** **T008165** **T008180**	**N511015**
		**56 x 40 mm [2.20 x 1.57“]**	for cut-out 50 x 25 mm [1.97 x 0.98“] to cut-out 45 x 22.2 mm [1.77 x 0.94“] screw mounting	black anthracite	**T008161** **T008181**	**N511045**
		**72 x 36 mm [2.83 x 1.42“]**	for cut-out 68 x 33 mm [2.68 x 1.30“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black and silver anodised as set	**162704Set**	–
		**60 x 50 mm [2.36 x 1.97“]**	for cut-out 54 x 29 mm [2.13 x 1.14“] to cut-out 45 x 22.2 mm [1.77 x 0.94“] screw mounting	black	**N003001**	**N511005**
		**48 x 48 mm [1.89 x 1.89“]**	for cut-out 45 x 45 mm [1.77 x 1.77“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black	**T008883**	–
Sealing cover IP65		**K1**	only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	**G008300** **G008301**	–
Transparent cover IP65		**1 Dv** (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14“], only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / black	**N003002**	**N511019**
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		**N511029** **N511034**	
Mounting frame		**cut-out 50 x 25 mm [1.97 x 0.98“]**	via adapter T008180 for snap-on mounting on 35 mm [1.38“] top-hat DIN rail	chromated	**G300004**	–
Enclosure blind		**48 x 24 mm [1.89 x 0.94“]**	for cut-out 45 x 22.2 mm [1.77 x 0.94“] and cut-out 50 x 25 mm [1.97 x 0.98“]	anthracite	**G003836**	–

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Technical data

Electrical connection	standard	flying leads, AWG 22 approx. 150 mm [5.91“] ø 0.34 mm², 6 mm [0.24“] stripped wire ends, tinned
Rated voltage	type 05 (8 Hz) type 0 (10 Hz) type a0 (10 Hz)	1.5 / 3 / 4.5 / 5 / 6 / 12 V DC (+15 %, -5 %) 12 / 24 / 48 / 115 / 230 V DC ±10 % 12 / 24 / 48 / 115 / 230 V AC, ±10 %
Cycle duration factor		100 %
Height of figures		approx. 4 x 1.7 mm [0.16 x 0.067“]
Color of figures		white on black
Counting mechanism shaft		stainless steel
Operating temperature		-10 °C ... +50 °C [+14 °F ... +122 °F] (non-condensing)
Relative humidity at +30 °C [+86 °F]		≤ 80 % (non-condensing)
Altitude		up to 2000 m [6562‘]
Mounting position		any
Operating life		> 50 x 10^6 pulses
Protection		IP40 (front side)
Weight		approx. 52 g [1.83 oz]
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2

Options

Electrical connection		· pin ø 1.5 mm with push on connectors (Art. no.: 1.151.X1X.XXX) · with flat pin 0.8 x 2.8 mm [0.032 x 0.11“] and flat push on connectors (Art. no.: 1.159.X1X.XXX) · with flat pin 0.8 x 6.3 mm [0.032 x 0.25“] and flat push on connectors (Art. no.: 1.157.XXX.XXX) · with screw terminal (Art. no.: 1.154.XXX.XXX.023)
Color of housing (availability see table)	grey black	Art. no.: X.XXX.XX0.XXX Art. no.: X.XXX.XX1.XXX
Extended temperature range		on request

Approvals

CE compliant in accordance with

EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

UKCA compliant in accordance with

EMC Regulations	S.I. 2016/1091
RoHS Regulations	S.I. 2012/3032
Low Voltage Regulations	S.I. 2016/1101

Type / Counting mechanism

Voltage	Type	Pulse frequency max.	Pulse on time min.	Pulse interval min.	Power consumption approx.	Permi. residual ripple max.
V DC	05	8 Hz	50 ms	75 ms	130 mW	5 %
V DC	0	10 Hz	50 ms	50 ms	0.5 W (≤115 V) 1 W (185 V)	48 %
V AC	a0	10 Hz	50 ms	50 ms	0.75 VA (≤ 115 V) 1.5 VA (230 V)	–

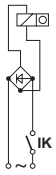
Connection diagram

type
0 a.1, DC



IK = Pulse contact

type
a, AC

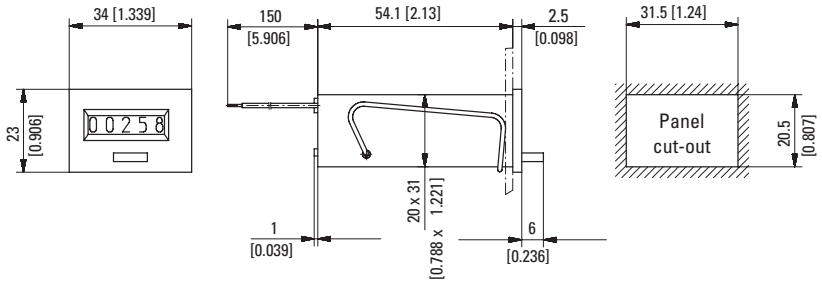


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Panel mount with mounting clip
Panel mount dimensions 31 x 20 [1.22 x 0.79]
Type W15.21



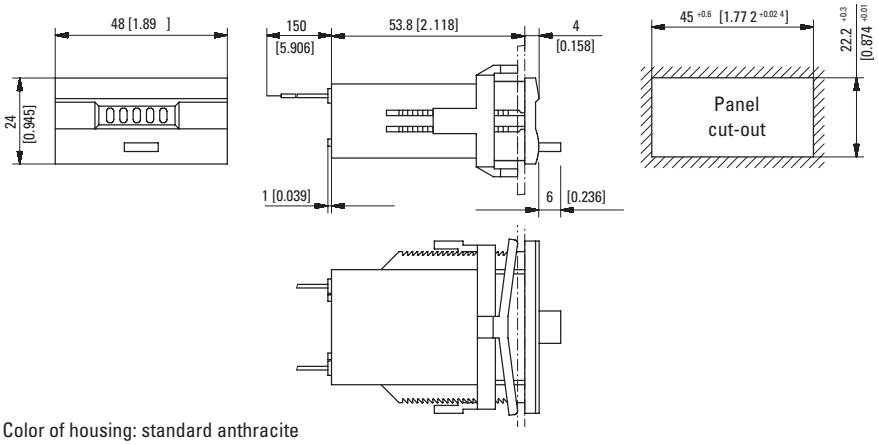


Color of housing black: Art. no. 1.150.211.XXX

Type	Voltage	Display	Art. no. 12 V	24 V	115 V	230 V	Further stock types:
W15.21	DC (8 Hz) / 05	5 digits	**1.150.210.049**	**1.150.210.050**			1.150.211.012 12 V DC/0 sw 1.150.211.013 24 V DC/0 sw 1.150.211.056 230 V AC/a0 sw
	DC (10 Hz) / 0		**1.150.210.012**	**1.150.210.013** [1)]			
	AC (10 Hz) / a0			**1.150.210.051**	**1.150.210.054**	**1.150.210.056** [1)]	

Panel mount with mounting clip
Panel mount dimensions 45 x 22 [1.77 x 0.87]
Type W15.51





Color of housing: standard anthracite

Type	Voltage	Display	Art. no. 12 V	24 V	115 V	230 V	
W15.51	DC (8 Hz) / 05	5 digits	**1.150.510.049.550**	**1.150.510.050.550**			
	DC (10 Hz) / 0		**1.150.510.012.550** [1)]	**1.150.510.013.550** [1)]			
	AC (10 Hz) / a0			**1.150.510.051.550**	**1.150.510.054.550** [1)]	**1.150.510.056.550** [1)]	

Dimensions in mm [inch]

1) Stock types.

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