

Large display scalable piece counter / tachometer (57/101 mm) LD



- Universal AC and DC power supply unit
- Max. 25 kHz, adaptable to almost all commercially available sensors
- Scalable (LDx006P0 only)
- Counter function with phase discriminator and stack counter (LDx006P0 only)
- 57 mm or 101 mm high brilliant dimmable LED display
- 2 freely programmable relay outputs (LDx006P0 only)
- RS 232 / 485 serial interface (LDx006P0 only)
- All-round IP65 housing
- Easily programmable via front buttons or free software (LDx006P0 only)
- 24 VDC sensor supply

<https://www.wachendorff-prozesstechnik.de/en/LD>

Description

The large industrial display LD can be used as a single counter or as a dual counter with tachometer function. Thanks to the optional equipment with two relay outputs and serial interface, the display can be used very flexibly and solves a wide variety of applications. The 4-digit display is used as a simple piece counter and can be read in 57 mm or 101 mm high digits at a distance of up to 50 m. The 6-digit display is also available in two different digit heights and can also be used as a 2-fold counter and tachometer. Thanks to the 8 different counter operating modes and free scaling, a wide variety of measuring tasks can be solved. The lightweight all-round IP65 housing allows use even in harsh industrial environments. The device is configured quickly and securely using 3 buttons or the free Crimson 2 software. In addition, the device parameterization can be copied from one device to one or more devices without a PC or software.

Product details

Entrance	NPN, PNP sensors, CMOS, TTL, potential-free contacts and permanent magnet sensors are accepted. permanent magnet sensors are accepted. Setting via DIP switch. Attenuation adjustable to 50 Hz.
Operating modes:	<ul style="list-style-type: none"> • 4-digit large display: simple piece counter (LDx00400) • 6-digit large display: single piece counter (LDx00600) • 6-digit large display: 2-fold counter, addition or subtraction with direction recognition can be set; additional 5-digit tachometer function (LDx006P0). Tachometer function (LDx006P0).
cut-off frequency:	LD200400, LD200600, LD400400 and LD400600: 25 kHz max. LD2006P0 and LD4006P0: without active switching output: 25 kHz (except for phase disk. x 4: 23 kHz) with active switching output: 20 kHz (except 2 counters: 14 kHz, Phase discr.x2: 13 kHz, phase discr.x4: 12 kHz)
Tachometer (LD2006P0 and LD4006P0):	5-digit ; Minimum input frequency 0.01 Hz ; Accuracy +/-0.01%

Display (dimmable):	4-digit, 57 mm or 101 mm high red LED (LDx00400). 6-digit, 57 mm or 101 mm high red LED. (LDx00600 / LDx006P0).
scaling (LD2006P0 and LD4006P0):	Both counters and the speedometer can be scaled independently of each other. scaled independently of each other. Free decimal point setting.
Sensor supply:	+24 VDC, max. 100mA for supply voltage >50 VAC/VDC +24 VDC, max. 50mA for supply voltage <50 VAC/VDC
Buttons:	The device is programmed and operated using the 3 push buttons on the front and operated (LDx006P0 only). PAR button: In operation = to the parameter list; During programming = save and to the next program point SEL button: In operation = display selection; During programming = select menu item RST button: During operation = reset; During program programming = digit selection
User input:	1 programmable input is available. It can be set via jumper PNP- or NPN-switching. Maximum input 28 VDC. Response times:10 ms typ., after 50 ms a new edge is detected at the user input. user input is recognized.
Relay output (LD2006P0 and LD4006P0):	2x form C changeover relay, 5A at 120/240 VAC
Serial interface (LD2006P0 and LD4006P0):	RS485: 300 to 38400 baud, address 0 to 99, multipoint, RS232: 300 to 38400 baud, half-duplex

Power supply:	AC supply: 50 to 250 VAC, 50/60 Hz, 26 VA DC supply: 21.6 to 250 VDC, 11W
Protection class:	IP65 all round.
Housing:	Black lacquered aluminum housing with mounting brackets for wall or ceiling mounting.
Dimensions:	LD2004xx: W 304.8 mm x H 101.6 mm x D 57.2 mm LD2006xx: W 406.4 mm x H 101.6 mm x D 57.2 mm LD4004xx: W 508.0 mm x H 200.0 mm x D 57.2 mm LD4006xx: W 660.4 mm x H 200.0 mm x D 57.2 mm
Connection:	Internal removable terminal strip blocks
Relative humidity:	max. 85 % rH, non-condensing.
Ambient temperature:	Operation: 0 °C to +65 °C Storage: -40 °C to +70 °C
Electromagnetic compatibility CE compliant:	Interference emission: EN 55011 LD200400 Class B LD2006P0 Class A Interference immunity: EN61000-4-2 Criterion A 4 kV contact discharge 8 kV air discharge EN61000-4-3 LD200400 Criterion A LD2006P0 Criterion B EN61000-4-4 Criterion A 2 kV Power 1 kV signal EN61000-4-5 Criterion A 1 kV L-L, 2 kV L&N-E power EN61000-4-6 Criterion A 3 V/rms EN61000-4-11 Criterion A 0.5 cycle
Weight:	LD2004xx: 1.59 kg LD2006xx: 2.04 kg LD4004xx: 3.63 kg LD4006xx: 4.76 kg

Scope of delivery:	Device, fixing material, seal, operating instructions.
Customs tariff number:	8531 20 20
Manufacturer:	Red Lion, USA

Products Order no.	
LD200400	57 mm digit height, 4-digit, counter
LD200600	57 mm digit height, 6-digit, counter
LD2006P0	57 mm digit height, 6-digit, counter / tachometer, relay output, RS232/485
LD400400	101 mm digit height, 4-digit, counter
LD4006P0	101 mm digit height, 6-digit, counter / tachometer, relay output, RS232/485
LD400600	101 mm digit height, 6-digit, counter



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