

TWN4 PALON COMPACT LEGIC WALL LIGHT RFID READER/WRITER SUPPORTING LF, HF

AND NFC FOR IN-WALL MOUNT





(exemplary illustration)

TWN4 Palon Compact LEGIC Wall Light is a versatile in-wall mount reader for integration into wall flush mount installation boxes. It supports enhanced interfaces, especially RS-485, and inherits all advantages and integrated tool support of the ELATEC TWN4 family. The IP54 protected housing is easy to install. The standard electric frame design elements make a unique look and feel.

TWN4 Palon Compact LEGIC Wall Light is a multi-technology reader/writer family supporting almost all 125 kHz and 13.56 MHz contactless technologies, including NFC. Integrated antennas for HF and LF allow excellent contactless performance.

Special features:

- + Optimized housing design for easy and fast installation
- + Flexible adoption to 3rd party design frames with 55x55 mm opening, easy to customize
- + Integrated LF and HF antennas
- + One on-board SAM socket (Secure Access Module)
- + Interfaces: RS-485, Wiegand or Clock/Data. OSDP protocol optionally, USB
- + Supports quick (re)configuration over network and over wireless interface with TWN4 CONFIG Card
- + Direct chip-commands support
- + Firmware update in the field possible
- + Powerful SDK for writing apps which are executed directly on the reader
- + On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
- + TWN4 Upgrade Card for P option available on request
- + 3D construction data (STEP) available on request
- + Individual kits on request

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Elevator	EV Chargers	Access	Shop POS	Fitness Equipment	Ticket POS	PC Log-on	Document Management	Driver ID	Vending	Parking	Gaming	Locker Locks	Time Attendance	Industrial PC



FREQUENCY	125 kHz (LF) / 13.56 MHz (HF)
ANTENNA(S)	Integrated
	Transparent Polycarbonate (PC) housing; rear protection lid; front lid for 55 x 55 mm
HOUSING	(2.17 x 2.17 inch) design frames (3 rd party), including standard inlay white or black, core
	unit IP54 protected; mounting ring for DIN 49073 flush mount wall boxes
	TWN4 Palon Compact LEGIC Wall Light with front lid and white standard frame:
	80.5 mm x 80.5 mm x 36.5 mm (3.17 inch x 3.17 inch x 1.44 inch)
	TWN4 Palon Compact LEGIC Wall Light with front lid and without frame
DIMENSIONS (L X W X H)	71 mm x 71 mm x 32.9 mm (2.80 inch x 2.80 inch x 1.30 inch)
	TWN4 Palon Compact LEGIC Wall Light without front lid and without frame
	71 mm x 71 mm x 30.8 mm (2.80 inch x 2.80 inch x 1.22 inch)
	9.0 V - 30 V via connector X1; 4.3 V - 5.5 V via micro USB
POWER SUPPLY	Limited power source according to the safety norms listed in the respective declaration of
	conformity, short-circuit current < 8 A
CURRENT CONSUMPTION	Operating: typ. 160 mA @12 V; Idle: typ. 50 mA @12 V; Peak typ. 250 mA @12 V
	Operating: -25 °C up to +70 °C (-13 °F up to +158 °F)
TEMPERATURE RANGE	
	Storage: -40 °C up to +85 °C (-40 °F up to +185 °F)
RELATIVE HUMIDITY	IP54 protected housing (frontside, when mounted)
	5% to 95% non-condensing (electronic components)
READ- / WRITE DISTANCE	Up to 100 mm / 4 inch, depending on OEM environment and transponder
OPERATING MODES (USB)	USB keyboard emulation – USB virtual COM port – CCID / PC/SC 2.01
MTBF	500,000 hours
WEIGHT	Approx. 61.2 g / 2.16 oz
SABOTAGE DETECTION	Infrared tamper detector, front facing
WIRE CONNECTOR	PCB terminal block, 8 positions, push-in spring connection for wires 0.2 to 0.5 mm ² / AWG
WIRE CONNECTOR	24 to 20, tool-free cable wiring
DIP SWITCH	8 position DIP switch for RS-485: addressing, speed settings, line termination
SIGNALING	Center RGB LED; acoustic loudspeaker
	<u>ISO14443A</u> :
	LEGIC Advant, MIFARE Classic EV11), MIFARE Classic, MIFARE Mini, MIFARE
	DESFire EV1, MIFARE DESFire EV2 ²), MIFARE DESFire Light ³), MIFARE Plus S, X,
	MIFARE Pro X ⁴), MIFARE Smart MX ⁴), MIFARE Ultralight, MIFARE Ultralight C, MIFARE
	Ultralight EV1 ¹), NTAG2xx, SLE44R35 ⁴), SLE66Rxx (my-d move) ⁴)
	ISO18092 ECMA-340:
	NFC Forum Tag 1-5 ⁵), Sony FeliCa ⁶), NFC Active and passive communication mode,
SUPPORTED TRANSPONDERS	Passive peer-to-peer mode - initiator, NFC Tag 2, 3, 4
(STANDARD) 13.56 MHZ	ISO14443B:
	Calypso ⁴ , CEPAS ⁴ , HID iCLASS ⁷ , Moneo ⁴ , Pico Pass ⁷
	<u>ISO15693</u> :
	EM4x33 ⁴ , EM4x35 ⁴ , HID iCLASS ⁷ , HID iCLASS SE/SR ⁷ , ICODE SLI, LEGIC Advant,
	M24LR16/64, SRF55Vxx (my-d vicinity) ⁴ , Tag-it, PicoPass ⁷)
	LEGIC Prime:
	LEGIC Prime
	AWID, Cardax, CASI-RUSCO, Deister ⁹ , EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450,
SUPPORTED TRANSPONDERS	4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³),
(STANDARD) 125 KHZ ⁸⁾	ICT ³), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ³), Pyramid, Q5, T5557, T5567, T5577,
	TIRIS/HDX ¹²), TITAN (EM4050), UNIQUE, ZODIAC
SUPPORTED TRANSPONDERS	All Standard Transponders, Cotag, G-Prox ⁹ , HID DuoProx II, HID ISO Prox II, HID Micro
	· ·
(OPTION P)	Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch
	Windows Embedded CE ³ , 7 (32-/64-bit), 8, 8.1, 10, Linux, Android ³ , iOS ³ , MAC OS X ³
OS SUPPORT PERIPHERAL INTERFACES TRANSMISSION SPEED	USB, RS-485, OSDP ³⁾ , Output 5V: Wiegand (D0/D1), or Clock/Data HF Air: up to 848 kbit/s, USB Full speed (12 Mbit/s), Host RS-485: up to 38,400 baud

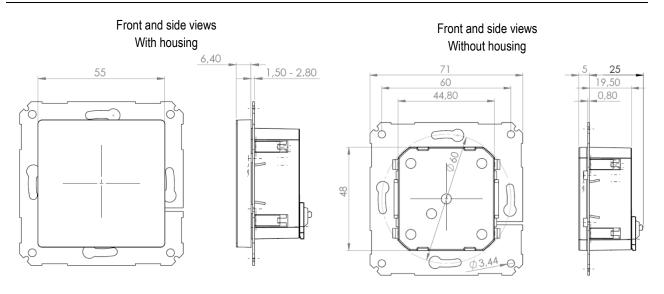


EXTENSION SLOT	One SAM socket for	ID-000 cards or modules					
CERTIFICATION NAME	TWN4 Palon Compa	TWN4 Palon Compact LEGIC Wall Light					
CERTIFICATION(S)	CE/RED, FCC, IC, F	CE/RED, FCC, IC, REACH and RoHS-III compliant					
	Box kit:						
	TWN4 Palon Compa	TWN4 Palon Compact LEGIC Wall Light reader in transparent housing, rear protection lid,					
	white standard frame, white front lid, white inlay standard inlay, installation instruction,						
	mounting screws, ca	mounting screws, cardboard box					
ORDER CODE(S)							
	T4WK-B01EU6	TWN4 Palon Compact LEGIC Wall Light kit, as described					
	T4WK-B01EU6-P	same, option P					
	*Individual kits availa	able on request					
	MECH-DFW21	Palon Wall design frame white					
	MECH-DFW22	Palon Wall design frame anthracite					
	MECH-DFW23	Palon Wall design frame silver					
	HOWL-YC1TR	Palon Wall transparent housing					
ACCESSORIES	HOWL-RL1TR	Palon Wall rear lid					
	MECH-MRW1EU	Palon Wall EU mounting ring					
	HOWL-FL1BL	Palon Wall front lid black					
	HOWL-FL1WH	Palon Wall front lid white					
	CAB-B9	USB A / USB micro cable					

¹/r/w enhanced security features on request ²/EV2/EV3 supported as part of the EV1 downward compatibility ³/On request ⁴/r/w in direct chip command mode ⁵/NFC Forum Tag 1 not supported ⁶/UID + r/w public area ⁷/UID only ⁸/125 kHz technology requires a Russian local test and import license from the ministry of Trade and Industry (MINPROMTORC). This license has to be in place before Elatec can accept any order to be shipped to Russia ⁹/Hash value only ¹⁰/Only emulation of 4100, 4102 ¹¹/From FW V4.05 ¹²/134.2 kHz only ¹³/Without encryption



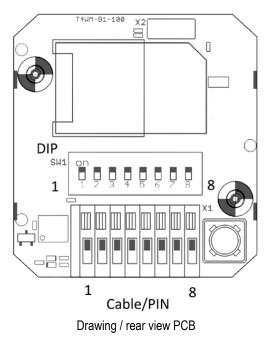
DRAWING / CONNECTOR ASSIGNMENT



(All measures in mm)

DIP	ASSIGNMENT
1	RS-485 address 0 LSB
2	RS-485 address 1
3	RS-485 address 2
4	RS-485 address 3 MSB
5	RS-485 BIAS on/off
6	RS-485 speed 0
7	RS-485 speed 1
8	RS-485 termination 120 Ohm on/off
PIN	ASSIGNMENT
4	

1	(unused)
2	(unused)
3	RS-485 A
4	RS-485 B
5	TTL Wiegand D0 or DATA
6	TTL Wiegand D1 or CLOCK
7	VIN 9 – 30 Volt
8	GND



Firmware may change the assignment of the DIP switch. Please refer to the TWN4 Palon manual. For Wiegand, Clock/Data the DIP switch is not used.

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