

TWN4 Palon Compact LEGIC Wall Light

Multi-frequency RFID reader (LF/HF/NFC) for in-wall mounting



TWN4 Palon Compact LEGIC Wall Light (exemplary illustration)

The RFID readers and modules of the TWN4 Palon Compact family support two RFID frequencies (125 kHz / 13.56 MHz), NFC and Bluetooth Low Energy (BLE). All devices are available with an NXP or LEGIC SM-4200 frontend and support a wide range of interfaces, for instance USB, RS-485 and, optionally, the OSDP protocol. A cost-optimized "light" variant with fewer interfaces and without BLE is also available. Although the readers are general-purpose devices, they are particularly appropriate for time attendance and access control. Depending on the intended application, the readers are available as modules for integration into a host device, as panel mount readers with IP65 protection or as in-wall readers with an IP54 protected housing.

Key features of the TWN4 Palon Compact LEGIC Wall Light reader include a customizable, easy-to-install housing with IP54 protection, flexible mounting options to 3rd party design frames (55 x 55 mm opening), and the possibility to use many different interfaces. Additionally, the reader can read more than 60 RFID technologies from low (LF) and high frequency (HF) bands, including NFC. This gives the option to select as many of the technologies required instead of being forced to select just a few ones.

Special features:

- + Possibility to read more than 60 RFID technologies
- Supports many interfaces, like USB and RS-485 (OSDP protocol optionally)
- + Two RFID frequencies (125 kHz/13.56 MHz) and NFC support
- + Powerful SDK for writing apps which are executed directly on the reader
- + Firmware update in the field possible
- + On-board 18 kB flash storage, e.g. for storing user accessible non-volatile data
- Supports transparent data exchange with RFID media
- + CCID and PC/SC 2.01
- Customizable and optimized housing design for easy and quick installation
- + IP54 protected housing for flexible adoption to 3rd party design frames with 55 x 55 mm opening





































TECHNICAL DATA

FREQUENCIES	125 kHz (LF) / 13.56 MHz (HF)		
ANTENNAS	Integrated		
HOUSING	Transparent polycarbonate (PC) housing, rear protection lid, front lid for 55.00 x 55.00 mm (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		
DIMENSIONS (L X W X H)	Reader with front lid and white standard frame: Approx. 80.50 x 80.50 x 36.50 mm / 3.17 x 3.17 x 1.44 inch Reader with front lid and without frame: Approx. 71.00 x 71.00 x 32.90 mm / 2.80 x 2.80 x 1.30 inch Reader without front lid and without frame: Approx. 71.00 x 71.00 x 30.80 mm / 2.80 x 2.80 x 1.22 inch		
POWER	Micro USB: 4.3 V – 5.5 V Connector X1: 9.0 V – 30 V PS2 classified power source according to IEC 62368-1, short-circuit current < 8 A		
CURRENT CONSUMPTION	Operating: 160 mA @ 12 V typically / Idle: 50 mA @ 12 V typ. / Peak: 250 mA @ 12 V typ.		
TEMPERATURE RANGE	Operating: -25 °C up to +70 °C (-13 °F up to +158 °F) 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		
READ/WRITE DISTANCE	LF and HF: up to 100 mm / 4 inch, depending on 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 24 to 20, tool-free cable wiring		
DIP SWITCH	8 position DIP switch for RS-485: addressing, speed settings, line termination		
SIGNALING	1 center RGB LED Acoustic loudspeaker		
SUPPORTED OPTIONS AND TRANSPONDERS	Depending on the firmware version and installed options, ELATEC readers and modules can support a wide range of RFID technologies. Please refer to the relevant ELATEC transponder matrix (available at www.elatec-rfid.com/int/transponder-technology) for more information about the available options and RFID technologies supported by the product.		
OS SUPPORT	Windows 7 (32-/64-bit) and higher versions, Linux, Android ¹⁾ , iOS ¹⁾ , MAC OS X ¹⁾		
PERIPHERAL INTERFACES	Micro USB, RS-485, OSDP1), 1 SAM slot for ID-000 card format, output 5V: Wiegand D0/D1, Clock/Data		
TRANSMISSION SPEED	USB full speed (12 Mbit/s), HF Air: up to 848 kbit/s, RS-485: up to 38,400 baud		
CERTIFICATION NAME	TWN4 Palon Compact LEGIC Wall Light		

¹)On request

²⁾The product has been certified for use in many countries and regions. Contact your Sales representative for detailed information about all certifications and approvals granted to the product.



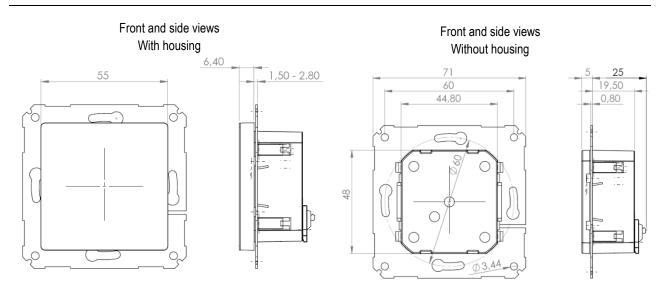
	Kits ¹⁾ in cardboard box packaging	
	T4WK-B01EU6	Standard reader
ORDER CODES	T4WK-B01EU6-P	Reader with P option
	Individual kits are a	available on request.

¹⁾All standard TWN4 Palon Compact LEGIC Wall Light kits are delivered with a reader module in a transparent housing, a rear protection lid, a white standard frame, a white front lid, a white standard inlay, installation instructions and mounting screws.

	HOWL-FL1BL	Palon Wall front lid black		
	HOWL-FL1WH	Palon Wall front lid white		
	HOWL-RL1TR	Palon Wall rear lid		
ACCECCODIEC	HOWL-YC1TR	Palon Wall transparent housing		
ACCESSORIES	MECH-DFW21	Palon Wall design frame white		
	MECH-DFW22	Palon Wall design frame anthracite		
	MECH-DFW23	Palon Wall design frame silver		
	MECH-MRW1EU	Palon Wall EU mounting ring		
CABLES	ELATEC RFID modules can be delivered with additional cables. Refer to the data sheet			
CADLES	Cables for ELATEC	devices for detailed information.		



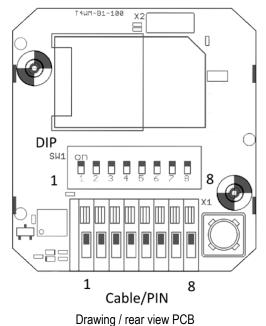
DRAWING / CONNECTOR ASSIGNMENT



(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
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



Drawing / rear view r o

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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