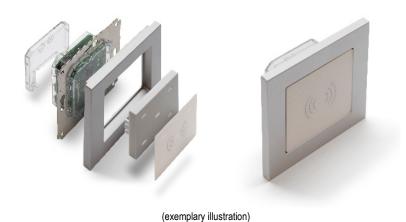


TWN4 PALON COMPACT WALL LIGHT

RFID READER/WRITER SUPPORTING LF, HF AND NFC FOR IN-WALL MOUNT



TWN4 Palon Compact 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 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 and PI options available on request
- 3D construction data (STEP) available on request
- + Individual kits on request





































TECHNICAL DATA

| FREQUENCY | 125 kHz (LF) / 13.56 MHz (HF) | | | |
|--|---|--|--|--|
| ANTENNA(S) | , , , , , , , , , , , , , , , , , , , | | | |
| ANTENNA(S) | Integrated | | | |
| LIQUICINO | 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 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) | | | |
| DIMENSIONS (L X W X H) | TWN4 Palon Compact Wall Light with front lid and without frame | | | |
| , | 71 mm x 71 mm x 32.9 mm (2.80 inch x 2.80 inch x 1.30 inch) | | | |
| | TWN4 Palon Compact 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 | | | |
| TEMPERATURE RANGE | 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) | | | |
| | IP54 protected housing (frontside, when mounted) | | | |
| RELATIVE HUMIDITY | 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 | | | |
| 0,120171012 2212011011 | PCB terminal block, 8 positions, push-in spring connection for wires 0.2 to 0.5 mm² / 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 | | | |
| SIGNALING | ISO14443A: | | | |
| | LEGIC Advant ¹⁾ , MIFARE Classic EV1 ²⁾ , MIFARE Classic, MIFARE Mini, MIFARE | | | |
| | | | | |
| | DESFire EV1, MIFARE DESFire EV23, MIFARE DESFire Light4, MIFARE Plus S, X, | | | |
| | · · | | | |
| | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE | | | |
| | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz | | | |
| OURDONTED TRANSPONDEDO | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: | | | |
| SUPPORTED TRANSPONDERS | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive | | | |
| SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode | | | |
| | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: | | | |
| | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), | | | |
| | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 | | | |
| | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: | | | |
| | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), | | | |
| | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) | | | |
| (STANDARD) 13.56 MHZ | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, | | | |
| (STANDARD) 13.56 MHZ SUPPORTED TRANSPONDERS | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), | | | |
| (STANDARD) 13.56 MHZ | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), ICT ⁴), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ⁴), Pyramid, Q5, T5557, T5567, T5577, | | | |
| (STANDARD) 13.56 MHZ SUPPORTED TRANSPONDERS | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), | | | |
| (STANDARD) 13.56 MHZ SUPPORTED TRANSPONDERS | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), ICT ⁴), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ⁴), Pyramid, Q5, T5557, T5567, T5577, | | | |
| (STANDARD) 13.56 MHZ SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ ⁸) | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), ICT ⁴), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ⁴), Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX ¹²), TITAN (EM4050), UNIQUE, ZODIAC | | | |
| (STANDARD) 13.56 MHZ SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ ⁸⁾ SUPPORTED TRANSPONDERS | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), ICT ⁴), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ⁴), Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX ¹²), TITAN (EM4050), UNIQUE, ZODIAC All Standard Transponders, Cotag, G-Prox ⁹), HID DuoProx II, HID ISO Prox II, HID Micro | | | |
| (STANDARD) 13.56 MHZ SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ ⁸) SUPPORTED TRANSPONDERS (OPTION P) | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x33 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), ICT ⁴), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ⁴), Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX ¹²), TITAN (EM4050), UNIQUE, ZODIAC All Standard Transponders, Cotag, G-Prox ⁹), HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch | | | |
| SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ8) SUPPORTED TRANSPONDERS (OPTION P) SUPPORTED TRANSPONDERS | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x335 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), ICT ⁴), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ⁴), Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX ¹²), TITAN (EM4050), UNIQUE, ZODIAC All Standard Transponders, Cotag, G-Prox ⁹), HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch | | | |
| SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ ⁸) SUPPORTED TRANSPONDERS (OPTION P) SUPPORTED TRANSPONDERS (OPTION PI) | MIFARE Pro X ⁵), MIFARE Smart MX ⁵), MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1 ²), NTAG2xx, SLE44R35 ⁵), SLE66Rxx (my-d move) ⁵), Topaz ISO18092 ECMA-340: NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony FeliCa ⁶), NFC Active and passive communication mode ISO14443B: Calypso ⁵), Calypso Innovatron protocol ⁵), CEPAS ⁵), HID iCLASS ¹), Moneo ⁵), Pico Pass ⁷), SRI4K, SRIX4K, SRI512, SRT512 ISO15693: EM4x335 ⁵), EM4x35 ⁵), HID iCLASS ¹), HID iCLASS SE/SR ¹), ICODE SLI, LEGIC Advant ¹), M24LR16/64, MB89R118/119, SRF55Vxx (my-d vicinity) ⁵), Tag-it, PicoPass ⁷) AWID, Cardax, CASI-RUSCO, Deister ⁹), EM4100, 4102, 4200 ¹⁰), EM4050, 4150, 4450, 4550, EM4305 ¹¹), FDX-B ¹²), EM4105 ¹²), UltraProx ¹²), HITAG 1 ¹³), HITAG 2 ¹³), HITAG S ¹³), ICT ⁴), IDTECK, Isonas, Keri, Miro, Nedap ⁹), PAC ⁴), Pyramid, Q5, T5557, T5567, T5577, TIRIS/HDX ¹²), TITAN (EM4050), UNIQUE, ZODIAC All Standard Transponders, Cotag, G-Prox ⁹), HID DuoProx II, HID ISO Prox II, HID Micro Prox, HID ProxKey III, HID Prox, HID Prox II, Indala, ioProx, Nexwatch Requires TWN4 SIO Card, All Standard Transponders, All Option P Transponders, HID iCLASS, HID iCLASS SE/SR/Elite, HID iCLASS SEOS (Facility Code/PAC) ¹⁴) | | | |

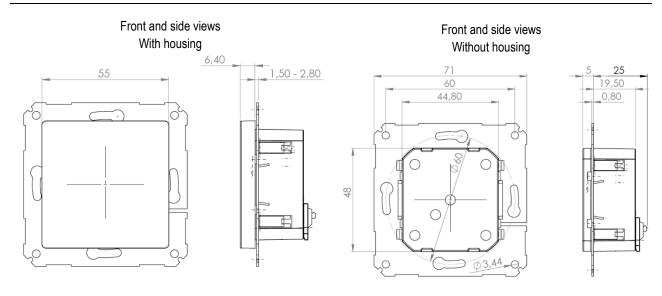


| TRANSMISSION SPEED | HF Air: up to 848 kbi | it/s, USB Full speed (12 Mbit/s), Host RS-485: up to 38,400 baud | | | |
|--------------------|---|---|--|--|--|
| EXTENSION SLOT | One SAM socket for ID-000 cards or modules | | | | |
| CERTIFICATION NAME | TWN4 Palon Compact Wall Light | | | | |
| CERTIFICATION(S) | CE/RED, FCC, IC, REACH and RoHS-III compliant | | | | |
| . , | Box kit: | | | | |
| | TWN4 Palon Compact Wall Light reader in transparent housing, rear protection lid, white | | | | |
| | | e front lid, white inlay standard inlay, installation instruction, mounting | | | |
| | screws, cardboard box | | | | |
| OPPER CORE(C) | | | | | |
| ORDER CODE(S) | T4WK-F01EU6 | TWN4 Palon Compact Wall Light kit, as described | | | |
| | T4WK-F01EU6-P | same, option P | | | |
| | T4WK-F01EU6-PI | same, option PI | | | |
| | | | | | |
| | *Individual kits available 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 | | | |
| 1) 110 1 - 2) / 1 | CAB-B9 | USB A / USB micro cable | | | |

¹⁾UID only ²⁾r/w enhanced security features on request ³⁾EV2/EV3 supported as part of the EV1 downward compatibility ⁴⁾On request ⁵⁾r/w in direct chip command mode ⁶⁾UID + r/w public area ⁷⁾UID only, read/write on request 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 ¹⁴⁾UID + PAC (Facility Code), r/w on request



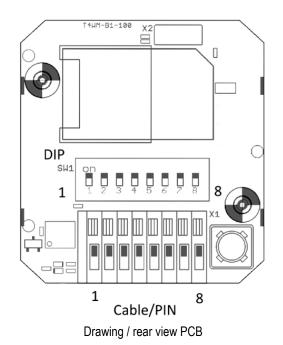
DRAWING / CONNECTOR ASSIGNMENT



(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 |



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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