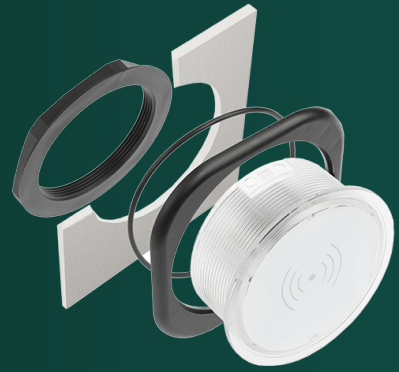


### HF | LF - Panel Reader **ELATEC - TWN4 Palon Compact LEGIC**

- Two RFID frequencies (125 kHz/13.56 MHz) and NFC support
- Many Interfaces, like USB and RS-485
- Powerful SDK
- IP65 protected housing



### HF | NFC - Panel Reader Multi-frequency Support

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.

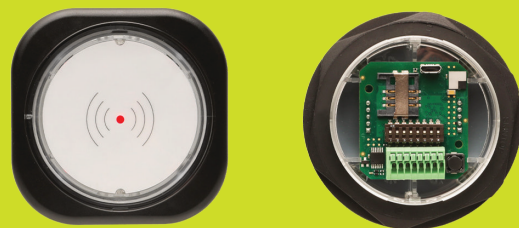
Key features of the TWN4 Palon Compact LEGIC Panel Light reader module include a customizable and easy-to-install housing with IP65 protection, the possibility to use many different interfaces and a powerful SDK for writing apps that are executed directly on the module. Additionally, the reader can read 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.

### Common Applications

- Secure access and control
- Point of Sale systems
- Time management
- Secure locker systems
- Access control and verification

# ELATEC

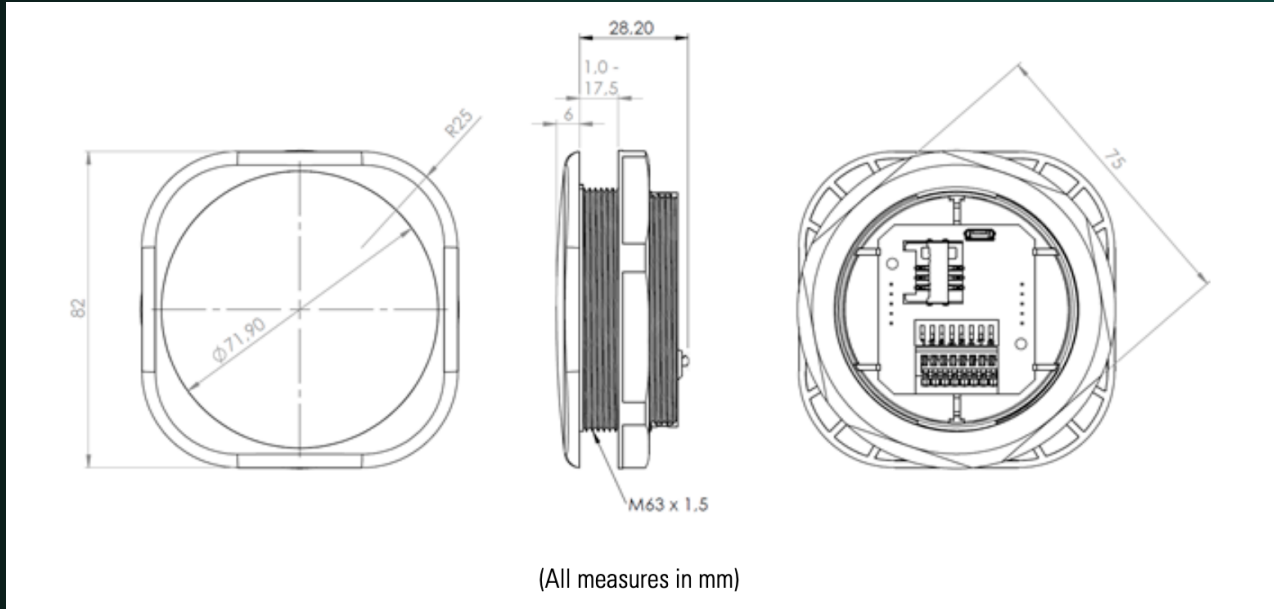
**RFID Systems**



## TECHNICAL SPECIFICATIONS

TWN4 Palon Compact LEGIC Panel Light	
Frequencies	125 kHz (LF) / 13.56 MHz (HF)
Antennas	Integrated
Housing	Transparent polycarbonate (PC) housing, black PC outer mounting ring. TWN4 Palon Compact LEGIC M Light reader module pre-installed. ABS locknut M63 x 1.5, black or grey, pre-installed design inlay (customizable). For mounting hole diameter 63.2 mm with anti-twist protection
Dimensions	Approx. 82.00 x 82.00 x 34.20 mm / 3.23 x 3.23 x 1.35 inch
Power	Micro USB: 4.3 V – 5.5 V Connector X1: 9.0 V – 30 V ES1/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 +80 °C (-13 °F up to +176 °F) Storage: -40 °C up to +85 °C (-40 °F up to +185 °F)
Relative Humidity	IP65 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. 77 g / 2.72 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 <sup>2</sup> / 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 <a href="http://www.elatec-rfid.com/int/transponder-technology">www.elatec-rfid.com/int/transponder-technology</a> ) for more information about the available options and RFID technologies supported by the product.
OS Support	Windows 7 (32-/64-bit) and higher versions On request: Linux, Android, iOS, MAC OS X
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 M Light
Certifications	Non-exhaustive list: CE/RED, FCC, IC, TAA compliant, REACH and RoHS-III compliant
Part No. / Model	N/A

## Drawing / Connector Assignment



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

