

uPASS Target

quick reference guide

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Installation

Safety instructions

The following safety precautions shall be observed during normal use, service and repair.

- The uPASS Target shall only be installed and serviced by qualified service personnel.
- Disconnect the power supply before (dis)connecting any wires, uPASS Target is NOT hot-swappable, so when making or changing connections, power must be switched OFF.
- To be sure of safety, do not modify or add anything to the uPASS Target other than mentioned in this installation guide or indicated by Nedap N.V.

Mounting instructions

The uPASS Target can be mounted to any surface with the wall mounting bracket and Pole Mounting Set. The uPASS Target can be “aimed” at the desired detection area with the mounting brackets.

Reader dimensions

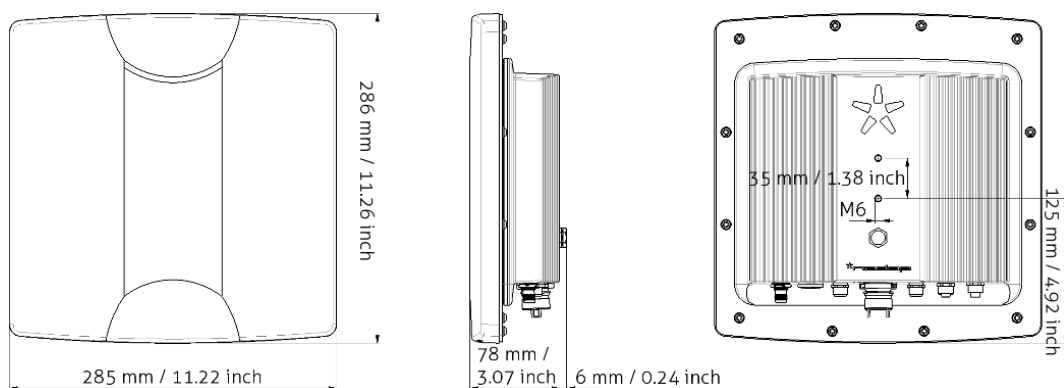


Figure 1: uPASS Target dimensions

Wall mounting bracket

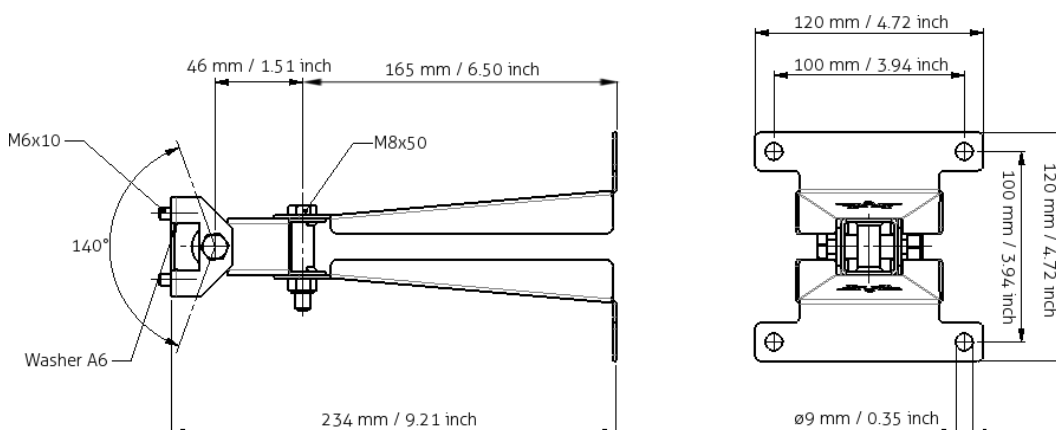


Figure 2: Wall Mounting Bracket

Pole mounting set

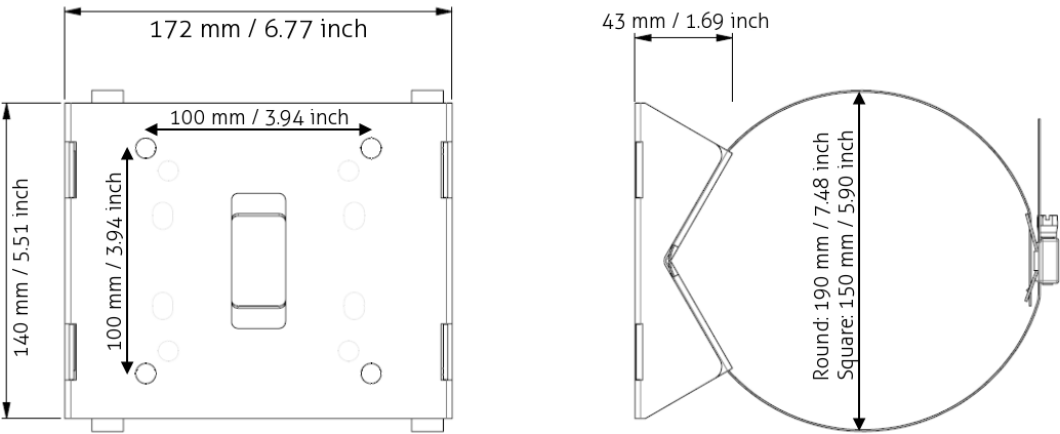


Figure 3: Pole Mounting Set

Weather protection hood

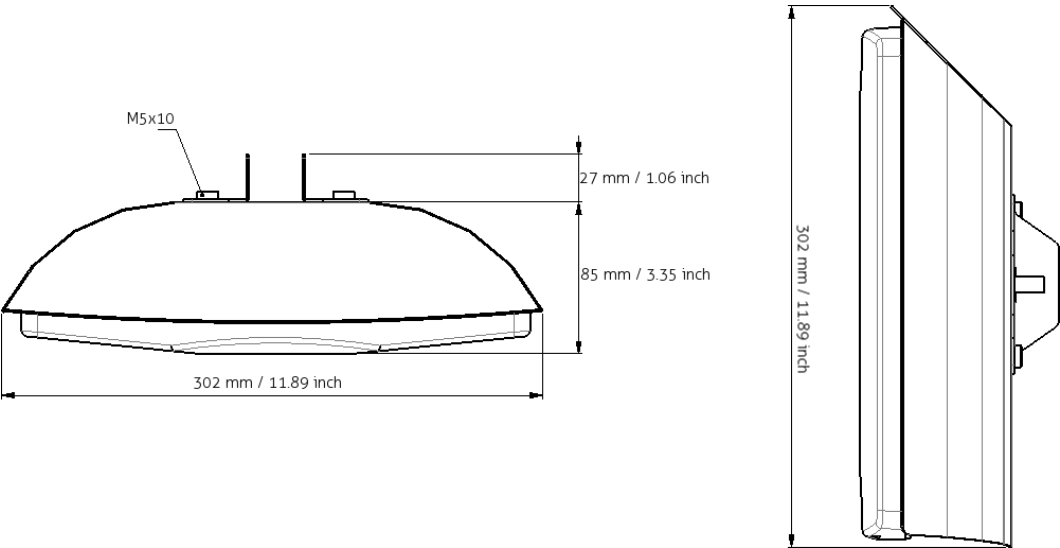


Figure 4: Weather Protection Hood

Connections

All connectors shown in this chapter are seen from the outside of the reader.



Figure 5: uPASS Target connectors



Pin	Function	Pin	Function	Pin	Function
1	RS422 TX-	1	Input 1 / UL	1	Relay NO
2	RS422 TX+	2	Wiegand Data 0 / Magstripe Clock	2	HF Data
3	RS422 RX- / RS485 B	3	Magstripe Card loaded	3	Relay NC
4	RS422 RX+ / RS485 A	4	Wiegand Data 1 / Magstripe Data	4	Relay COM
5	Ground	5	RDIS	5	Ground
		6	Ground		
		7	Ground		
		8	Input 2 / NA		

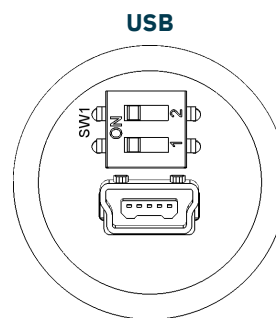
RS422 / RS485

The RS422 or RS485 communication can be used for communication with the Access Control System, configuration settings and firmware update. Only the RS422 or the RS485 interface can be active (not both), this is determined by SW1-2 (located near the USB port).

The maximum cable length for both interfaces is 65 meters / 213 feet. This distance can be increased by adding termination resistors, using twisted cables and/or configuring a lower baud rate.

Wiegand / Magstripe

The Wiegand and Magstripe communication can be used for communication with to Access Control System only. The Wiegand and Magstripe can operate with a maximum cable length of 150 meters / 500 feet.



Pin	Function
1	-
2	Ground
3	DC+
4	-

SW1	Function
1	ON=TRANSIT compatible mode, OFF=UHF mode
2	ON=RS422, OFF=RS485

DC power supply

A DC power supply can be connected to the uPASS Target via CONN. 5. This DC power supply must be able to deliver 12Vdc/1.5A or 24Vdc/0.75A.

Power over Ethernet

Power over Ethernet operates over Ethernet cables. CONN. 4 is a RJ45 Ethernet connection and can be used for Power over Ethernet. The uPASS Target requires IEEE802.3at (Power over Ethernet Plus).

USB driver installation

Make sure your computer is connected with internet. Connect the uPASS Target reader to your computer via the USB cable. The USB drivers may be installed automatically. In case you need to install the USB drivers manually, please go to the website www.ftdichip.com/Drivers/VCP.htm and download the VCP (Virtual Com Port) drivers. After successful installation of the USB drivers the reader will appear in the Windows device manager in "Ports (COM & LPT)" section.

Reader configuration

The uPASS Target reader settings can be configured easily using the UHFTOOL software.

The UHFTOOL can be downloaded from <https://portal.nedapidentification.com>.

TRANSIT compatible mode

The uPASS Target has a TRANSIT compatible processor to support TRANSIT firmware versions (e.g. P61, P81, Q70).

Enable the TRANSIT compatible mode with SW1-1 ON (located near the USB port).

TRANSIT software tools can be downloaded from <https://portal.nedapidentification.com>.

The TRANSIT compatible mode requires that the UHF tags are programmed in the NEDAP-XS format.