



# PXHD-12W-LW

## Micro Power 125KHz FSK H.I.D. Module

### Data sheet

Ver.18.3

#### ● Overview

PXHD-12W-LW is ultra-low power modules designed to operate from 4volt to 9volt. At its lower power setting is consumes just 15 $\mu$ A making these modules the perfect low power alternative to conventional readers.

Especially suitable for portable device or button operated contactless locks.

The modules support Wiegand 25~40 data formats and able to read H.I.D.

or compatible cards and ideal for fixed and portable applications.

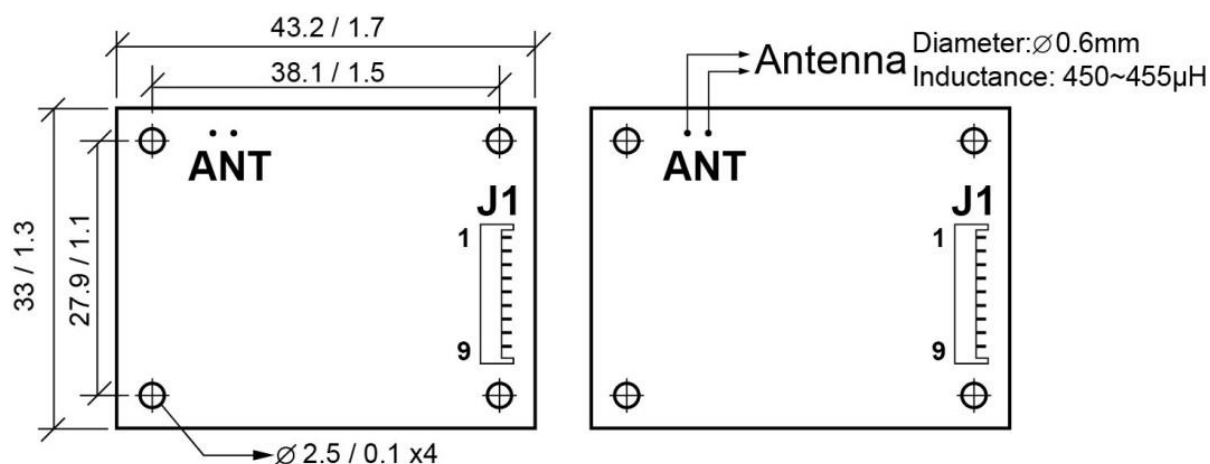
OEM/ODM orders are welcome.



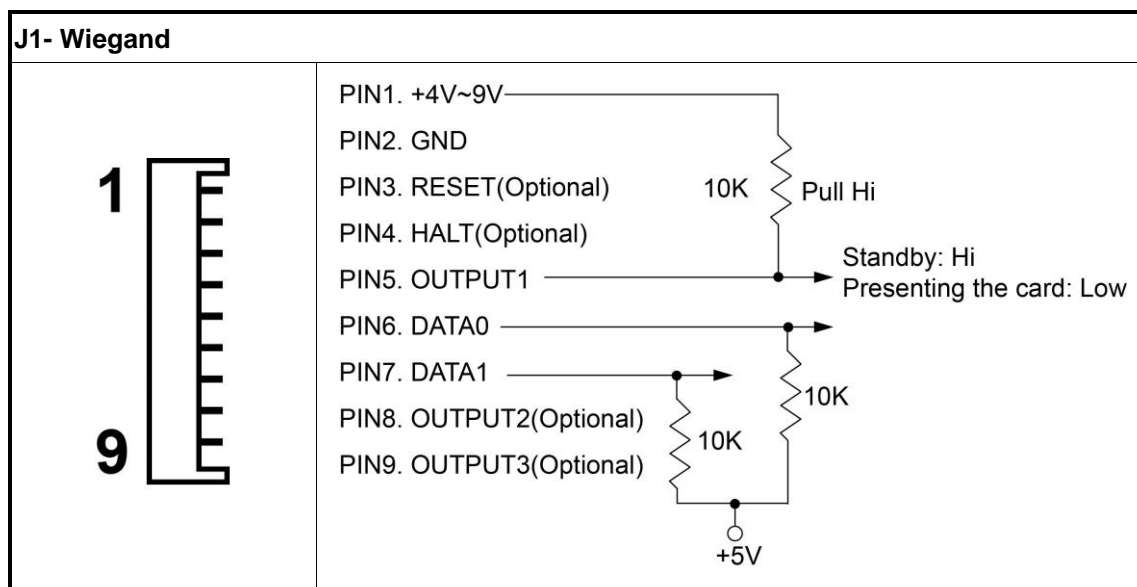
#### ● Specification

RFID frequency	125KHz FSK	
Applicable cards	H.I.D. or compatible card	
Reading range (Depending on tag size, tag type and antenna size)	DC 4V	30 mm
	DC 9V	35 mm
Output format	Wiegand 25~40 bits (Depending on the internal data bits configured on the card)	
Power input	DC4V~DC 9V	
Standby current	10 $\mu$ A~15 $\mu$ A	
Working current	21.3 mA~23.8 mA	
Dimensions(L) $\times$ (W)	43.2 x 33 mm / 1.7 x 1.3 inch	
Operating temperature	-30 $^{\circ}$ C ~65 $^{\circ}$ C	
Storage temperature	-40 $^{\circ}$ C ~85 $^{\circ}$ C	

#### ● Dimension: Unit:mm / inch



## ● Pin Description



## ● Data formats

### Output Data Structure - Wiegand 26

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
P	E	E	E	E	E	E	E	E	E	E	E	E	O	O	O	O	O	O	O	O	O	O	O	O	P
Summed for even parity(E)													Summed for Odd parity(O)												

P=Starts Even parity bit and stop Odd parity bit.

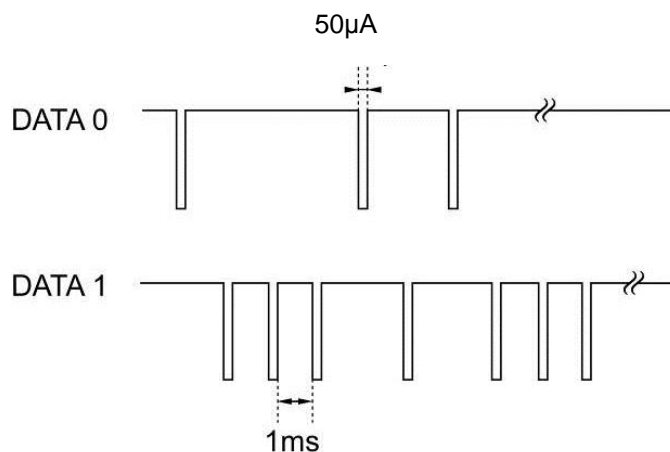
Even parity "E" is generated by summing from bit2 to bit13; Odd parity "O" is generated by summing from bit14 to bit25.

### Output Data Structure - Wiegand 34

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
P	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	P
P	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E																	
																	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	P
Summed for even parity(E)																	Summed for Odd parity(O)																

P=Starts Even parity bit and stop Odd parity bit.

Even parity "E" is generated by summing from bit2 to bit17; Odd parity "O" is generated by summing from bit18 to bit33.




(Scales is not proportional to the real drawing)

- **Optional antenna**

Antenna Model No.	Dimension	Reading Range (Depending on tag size, tag type)
R-17-54TS/450UH	Internal diameter: 70 x 54 mm Outside diameter: 74 x 59 mm Height: 5mm	Card(T:1.8mm): 35 mm
		Card(T:0.8mm): 30 mm
R-17-PP110/COIL	Internal diameter: 84 x 35 mm Outside diameter: 86 x 38 mm Height: 3mm	Card(T:1.8mm): 35 mm
		Card(T:0.8mm): 30 mm
R-17-PEI101/COIL	Internal diameter: 34 x 34 mm Outside diameter: 23 x 23 mm Height: 2 mm	Card(T:1.8mm): 28 mm
		Card(T:0.8mm): 24 mm

- **Ordering information**

PXHD-12W-LW	Micro Power 125KHz FSK H.I.D. Module With 2 pin connector for antenna	
PXHD-12W-LW1	Micro Power 125KHz FSK H.I.D. Module	