



RFID 125KHz Dual Decoding Read Module

RFID 125KHz ASK/FSK Read Module

PXEH-FWS-TRA

Ver.23.1

● Introduction

The 125KHz proximity reading module equipped with the **ASK / FSK** dual decoding circuits to read the both EM & H.I.D. contactless cards or tags into Wiegand & UART formats. In this version, we output the Wiegand 26 bits or UART signal by external jumper selection. Additionally, we supported various module versions to answer different requirements, please refer to our products catalog.



● Features

- 125KHz proximity dual decoding technologies reading for EM, TEMIC, H.I.D. cards at the same mode.
- Embedded with internal antenna or external bigger antenna at the same model.
- Epoxy potted for weather resistant with reliable quality.
- Compact size with high performance.
- Ease system design for access control, fingerprint, mobile handheld device etc.

● Specification

Type	EM	H.I.D.
Dimensions	26 (L) x 25 (W) x 7 (H) mm	
Net weight	7g ± 5%	
Enclosure material	ABS	
Card	EM 4001, EM 4102 or compatible / TEMIC 5557	H.I.D., TEMIC 5557
Operation frequency	125KHz, ASK	125KHz, FSK
Reading range	Depending on tag size, tag type and antenna size	
Output format	Wiegand 26 bits or UART (9,600 bps, 8, N, 1)	
Power requirements	5VDC @ 18mA nominal	
Operating temperature	-10°C ~ 75°C	
Storage temperature	-20°C ~ 85°C	

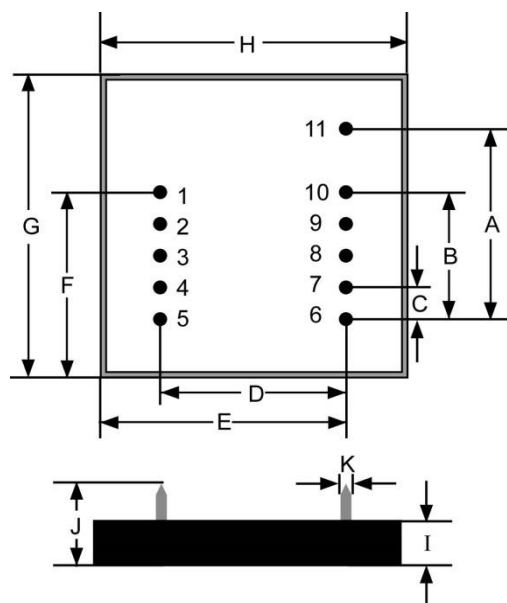
Wiegand 26bits output format

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.

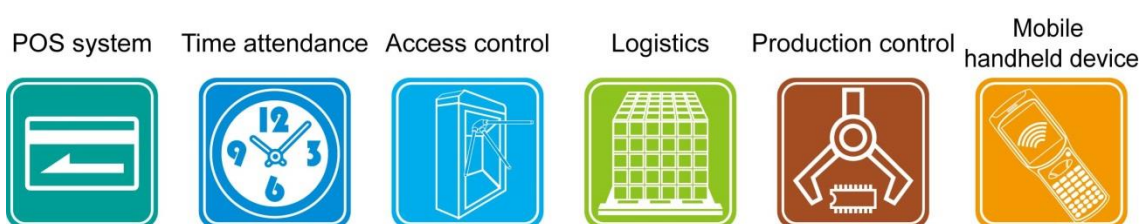
Even parity "E" is generated by summing from bit2 to bit13; Odd parity "O" is generated by summing from bit14 to bit25.

● Dimensions(Unit: mm)



	Nom.	Min	Max.
A	12.0	11.6	12.4
B	8.0	7.6	8.4
C	2.0	1.8	2.2
D	15.0	14.6	15.4
E	20.3	19.8	20.9
F	16.3	15.8	16.9
G	26.4	26.1	27.1
H	25.3	24.9	25.9
I	6.0	5.8	6.6
J	9.9	9.40	10.5
K	0.66	0.62	0.67

● Application fields



Specifications subject to change without notice for further modification.

