

FE-MF-TWR & FE-MF-WR

WIEGAND / OSDP 13.56 MHz 8HR10D READER

FE-MF-WR and FE-MF-TWR readers support 8HR10D Card read Standard meaning they read bytes from left to right (reverse). Also, there is support for 4-byte and 7-byte cards. When reading 7-byte card, reader deletes first 3 MSB (Most Significant Bits) and reads it like 4-byte card.



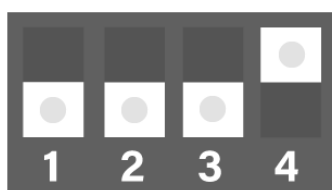
FE-MF-WR



FE-MF-TWR

Specification		
MODEL	FE-MF-WR	FE-MF-TWR
RFID Card Type	Mifare/NFC	Mifare/NFC
Verification time	100ms	100ms
Power Consumption	60 mA at 12V (up to 0.72W)	80 mA at 12V (up to 1W)
Communication	Wiegand 34 & OSDP	Wiegand 34 & OSDP
LED	RGB	RGB
Transmitting distance	100 meters	100 meters
ESD Protection	+2.5 KV	+2.5 KV
Built-in Watch Dog	Yes	Yes
IP 65 Rating	Yes	Yes
Card collision diagram	Yes	Yes
Self-Diagnostic	Yes	Yes
Surge Protection	Yes	Yes
Buzzer	Yes	Yes
Power Requirement	DC 0 to 24V	DC 0 to 24V
Operating Temperature	-20°C to 70°C	-20°C to 70°C
Operating Humidity	5% to 80%	5% to 80%
Dimensions	84.2 x 93.7 x 20 mm	84.2 x 93.7 x 20 mm
Mifare and Desfire Support	Yes	Yes
8HR10D Format Support	Yes	Yes

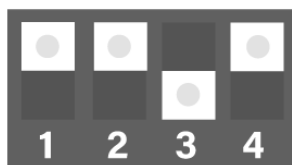
OSDP Configuration



ON
OFF

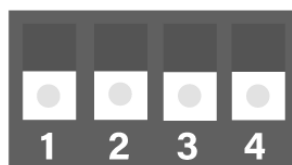
DIP 4	Reader Mode
ON	OSDP
OFF	Wiegand 34

DIP 1	DIP 2	DIP 3	OSDP Address	Door in system
OFF	OFF	OFF	0	Door 1 – Reader A
ON	OFF	OFF	1	Door 1 – Reader B
OFF	ON	OFF	2	Door 2 – Reader A
ON	ON	OFF	3	Door 2 – Reader B
OFF	OFF	ON	4	Door 3 – Reader A
ON	OFF	ON	5	Door 3 – Reader B
OFF	ON	ON	6	Door 4 – Reader A
ON	ON	ON	7	Door 4 – Reader B



Example :

DIP Switch OSDP
setting for Door 2 - Reader B
Address 3



Example :

DIP Switch Wiegand setting
DIP Switches 1-3 do not have a
function

Reader Wires Description:

Wire Colour	Name	Function
Red	DC 9-24V	Power supply (+)
Black	GND	Power supply (-)
Green	WD0	Weigand Data 0
White	WD1	Wiegand Data 1
Blue	LED	LED indicators on reader
Yellow	BUZZER	Buzzer on reader
Brown	RS485	OSDP Data A
Orange	RS485	OSDP Data B