

## Caractéristiques principales

### LECTEUR SIGMA LITE LEC72SG3000-NBX

Tension d'alimentation	12V DC à 24V DC
Consommation	1A min @12V
Distance de raccordement	jusqu'à 600 m. (RS485) ou 100 m. (DATALOCK / Wiegand)
Pilote UTL	<p><b>DATALOCK</b> : MS ISO2-Magstripe (2)</p> <p><b>WIEGAND</b> : selon configuration</p> <p><b>RS485:</b>            DECIMAL : MS PROXIL 10 CHAR (0), MS ISO2-Magstripe (2)            HEXADECIMAL : MS ISO2-Magstripe (3)</p>
Choix du protocole de communication	<p>Pour passer le lecteur en DATALOCK ou Wiegand, veuillez consulter la documentation de paramétrage de la biométrie.</p> <p><b>Protocole RS485:</b> OSDP (plain uniquement)</p>



### LECTEUR SIGMA LEC72SG4124-NBX

Tension d'alimentation	12V DC à 24V DC
Consommation	1A min @12V
Distance de raccordement	jusqu'à 600 m. (RS485) ou 100 m. (DATALOCK / Wiegand)
Pilote UTL	<p><b>DATALOCK</b> : MS ISO2-Magstripe (2)</p> <p><b>WIEGAND</b> : selon configuration</p> <p><b>RS485:</b>            DECIMAL : MS PROXIL 10 CHAR (0), MS ISO2-Magstripe (2)            HEXADECIMAL : MS ISO2-Magstripe (3)</p>
Choix du protocole de communication	<p>Pour passer le lecteur en DATALOCK ou Wiegand, veuillez consulter la documentation de paramétrage de la biométrie.</p> <p><b>Protocole RS485:</b> OSDP (plain uniquement)</p>



### LECTEUR SIGMA EXTREME LEC72SG5x24-NBX (LEC72SG5024-NBX et LEC72SG5124-NBX)

Tension d'alimentation	12V DC à 24V DC
Consommation	1A min @12V
Distance de raccordement	jusqu'à 600 m. (RS485) ou 100 m. (DATALOCK / Wiegand)
Pilote UTL	<p><b>DATALOCK</b> : MS ISO2-Magstripe (2)</p> <p><b>WIEGAND</b> : selon configuration</p> <p><b>RS485:</b>            DECIMAL : MS PROXIL 10 CHAR (0), MS ISO2-Magstripe (2)            HEXADECIMAL : MS ISO2-Magstripe (3)</p>
Choix du protocole de communication	<p>Pour passer le lecteur en DATALOCK ou Wiegand, veuillez consulter la documentation de paramétrage de la biométrie.</p> <p><b>Protocole RS485:</b> OSDP (plain uniquement)</p>



## Câblage

### RS485

LEC72SG3000-NB5	LEC72SG4124-NB5	LEC72SG5x24-NB5	MDP1-RS485	MDP2-RS485	MB/CPU485
6 RS485_GND (Black/Red)	A6 Digital ground	7 RS485_GND (Black/Red)	GND : 0V lecteur	GND : 0V lecteur	1 GND
5 RS485_A (Blue)	D5 RS485 TX / RX +	9 RS485_RXTX+ (Blue/Black)	4+/Tx	DA1/DA2/4+	+
7 RS485_B (Blue/Red)	D6 RS485 TX / RX -	11 RS485_RXTX- (Blue/White)	4-	CK1/CK2/4-	-
1 Power +12V (Red)	A1 Power supply +12V	25 Power Supply 12-24V DC (Red)	+12 interne ou +V auxiliaire	+V	2 ou +V
2 Power GND (Black)	A2 Power ground	26 Power ground (Black)	GND : 0V alim.	GND : 0V alim.	1 GND

### DATALOCK

LEC72SG3000-NB0	LEC72SG4124-NB0	LEC72SG5x24-NB0	MDP1A	MDP2	MB/RJ45
20 WIEGAND_GND (Black/Red)	A6 Digital ground	8 WIEGAND_GND (Black/Red)	GND : 0V lecteur	GND : 0V lecteur	1 GND
17 WIEGAND_LEDOUT1 (Blue)	B5 Wiegand LED 1	1 WIEGAND_LEDOUT1 (Blue)	3	VV1/VV2	3
14 WIEGAND_OUT0 (Green)	B3 D0_OUT	4 WIEGAND_OUT0 (Green)	4	DA1/DA2/4+	4
18 WIEGAND_LEDOUT2 (Blue/Red)	B6 Wiegand LED 2	2 WIEGAND_LEDOUT2 (Blue/Red)	5	VR1/VR2	5
16 WIEGAND_OUT1 (White)	B4 D1_OUT	5 WIEGAND_OUT1 (White)	7	CK1/CK2/4+	7
1 Power +12V (Red)	A1 Power supply +12V	25 Power Supply 12-24V DC (Red)	+12 interne ou +V auxiliaire	+V	2 ou +V
2 Power GND (Black)	A2 Power ground	26 Power ground (Black)	GND : 0V alim.	GND : 0V alim.	1 GND

### WIEGAND

LEC72SG3000-NB0	LEC72SG4124-NB0	LEC72SG5x24-NB0	MDP1A	MDP2	MB/RJ45
20 WIEGAND_GND (Black)	A6 Digital ground	8 WIEGAND_GND (Black/Red)	GND : 0V lecteur	GND : 0V lecteur	1 GND
17 WIEGAND_LEDOUT1 (Blue)	B5 LED1	1 WIEGAND_LEDOUT1 (Blue)	3	VV1/VV2	3
14 WIEGAND_OUT0 (Green)	A3 D0_OUT	4 WIEGAND_OUT0 (Green)	4	DA1/DA2/4+	4
18 WIEGAND_LEDOUT2 (Blue/Red)	B6 LED2	2 WIEGAND_LEDOUT2 (Blue/Red)	5	VR1/VR2	5
16 WIEGAND_OUT1 (White)	A4 D1_OUT	5 WIEGAND_OUT1 (White)	7	CK1/CK2/4+	7
1 Power +12V (Red)	A1 Power Supply 12V	25 Power Supply 12-24V DC (Red)	+12 interne ou +V auxiliaire	+V	2 ou +V
2 Power GND (Black)	A2 Power ground	26 Power ground (Black)	GND : 0V alim.	GND : 0V alim.	1 GND

## Recommandations : raccordement des équipements situés en zone non sécurisée

Afin de prévenir les tentatives d'intrusion par court-circuit des lecteurs situés en zone non sécurisée, il est recommandé de protéger l'alimentation du lecteur par un fusible dédié (Exemple : Fusible 500 mA).



## Main features

### SIGMA LITE READER (LEC72SG3000-NBX)

Voltage	12V DC to 24V DC
Energy consumption	1A min @12V
Connection distance	up to 600 m. (RS485) or 100 m. (DATALOCK / Wiegand)
UTL driver	<b>DATALOCK</b> : MS ISO2-Magstripe (2) <b>WIEGAND</b> : depending on the configuration <b>RS485:</b> DECIMAL : MS PROXIL 10 CHAR (0), MS ISO2-Magstripe (2) HEXADECIMAL : MS ISO2-Magstripe (3)
Communication protocol	To set up the reader in DATALOCK or Wiegand mode, please refer to the biometry set up guide. <b>RS485 Protocol:</b> OSDP (Plain only)



### SIGMA READER (LEC72SG4124-NBX)

Voltage	12V DC to 24V DC
Consumption	1A min @12V
Connection distance	up to 600 m. (RS485) or 100 m. (DATALOCK / Wiegand)
UTL driver	<b>DATALOCK</b> : MS ISO2-Magstripe (2) <b>WIEGAND</b> : depending on the configuration <b>RS485:</b> DECIMAL : MS PROXIL 10 CHAR (0), MS ISO2-Magstripe (2) HEXADECIMAL : MS ISO2-Magstripe (3)
Communication protocol	To set up the reader in DATALOCK or Wiegand mode, please refer to the biometry set up guide. <b>RS485 Protocol:</b> OSDP (Plain only)



### SIGMA EXTREME READER (LEC72SG5x24-NBX : LEC72SG5024-NBX et LEC72SG5124-NBX)

Voltage	12V DC to 24V DC
Consumption	1A min @12V
Connection distance	up to 600 m. (RS485) or 100 m. (DATALOCK / Wiegand)
UTL driver	<b>DATALOCK</b> : MS ISO2-Magstripe (2) <b>WIEGAND</b> : depending on the configuration <b>RS485:</b> DECIMAL : MS PROXIL 10 CHAR (0), MS ISO2-Magstripe (2) HEXADECIMAL : MS ISO2-Magstripe (3)
Communication protocol	To set up the reader in DATALOCK or Wiegand mode, please refer to the biometry set up guide. <b>RS485 Protocol:</b> OSDP (Plain only)



## Wiring

### RS485

LEC72SG3000-NB5	LEC72SG4124-NB5	LEC72SG5x24-NB5	MDP1-RS485	MDP2-RS485	MB/CPU485
6 RS485_GND (Black/Red)	A6 Digital ground	7 RS485_GND (Black/Red)	GND : 0V reader	GND : 0V reader	1 GND
5 RS485_A (Blue)	D5 RS485 TX / RX +	9 RS485_RXTX+ (Blue/Black)	4+/Tx	DA1/DA2/4+	+
7 RS485_B (Blue/Red)	D6 RS485 TX / RX -	11 RS485_RXTX- (Blue/White)	4-	CK1/CK2/4-	-
1 Power +12V (Red)	A1 Power supply +12V	25 Power Supply 12-24V DC (Red)	+12 internal or +V aux.	+V	2 or +V
2 Power GND (Black)	A2 Power ground	26 Power ground (Black)	GND : 0V power supply	GND : 0V power supply	1 GND

### DATALOCK

LEC72SG3000-NB0	LEC72SG4124-NB0	LEC72SG5x24-NB0	MDP1A	MDP2	MB/RJ45
20 WIEGAND_GND (Black/Red)	A6 Digital ground	8 WIEGAND_GND (Black/Red)	GND : 0V reader	GND : 0V reader	1 GND
17 WIEGAND_LEDOUT1 (Blue)	B5 Wiegand LED 1	1 WIEGAND_LEDOUT1 (Blue)	3	VV1/VV2	3
14 WIEGAND_OUT0 (Green)	B3 D0_OUT	4 WIEGAND_OUT0 (Green)	4	DA1/DA2/4+	4
18 WIEGAND_LEDOUT2 (Blue/Red)	B6 Wiegand LED 2	2 WIEGAND_LEDOUT2 (Blue/Red)	5	VR1/VR2	5
16 WIEGAND_OUT1 (White)	B4 D1_OUT	5 WIEGAND_OUT1 (White)	7	CK1/CK2/4+	7
1 Power +12V (Red)	A1 Power supply +12V	25 Power Supply 12-24V DC (Red)	+12 internal ou +V aux.	+V	2 or +V
2 Power GND (Black)	A2 Power ground	26 Power ground (Black)	GND : 0V power supply.	GND : 0V power supply.	1 GND

### WIEGAND

LEC72SG3000-NB0	LEC72SG4124-NB0	LEC72SG5x24-NB0	MDP1A	MDP2	MB/RJ45
20 WIEGAND_GND (Black)	A6 Digital ground	8 WIEGAND_GND (Black/Red)	GND : 0V reader	GND : 0V reader	1 GND
17 WIEGAND_LEDOUT1 (Blue)	B5 LED1	1 WIEGAND_LEDOUT1 (Blue)	3	VV1/VV2	3
14 WIEGAND_OUT0 (Green)	A3 D0_OUT	4 WIEGAND_OUT0 (Green)	4	DA1/DA2/4+	4
18 WIEGAND_LEDOUT2 (Blue/Red)	B6 LED2	2 WIEGAND_LEDOUT2 (Blue/Red)	5	VR1/VR2	5
16 WIEGAND_OUT1 (White)	A4 D1_OUT	5 WIEGAND_OUT1 (White)	7	CK1/CK2/4+	7
1 Power +12V (Red)	A1 Power Supply 12V	25 Power Supply 12-24V DC (Red)	+12 internal or +V aux.	+V	2 or +V
2 Power GND (Black)	A2 Power ground	26 Power ground (Black)	GND : 0V power supply.	GND : 0V power supply.	1 GND

## Recommandations : Connecting equipment on non secure areas

It is strongly recommended to protect the reader power supply with a dedicated fuse (Example : 500 mA fuse) in order to prevent short circuit intrusion attempts on readers placed on non secure areas.