ILT SERIES INDUCTIVE LİNEAR POSITION SENSORS
MODBUS PROTOCOL ADDRESS TABLE

COIL ADDRESS TABLE

Coil Address (hex)	Parameter Name	Parameter Description	Count of Bit	Value	Read/Write
0x01	RESET_DEVICE	Sensor Reset	1 bit	Default Value=0 1=Reset	Read/Write

HOLDING REGISTER ADDRESS TABLE

Holding Register Address (hex)	Parameter Name	Parameter Description	Count of Bit	Default Value	Read/Write
0x01	UART_BAUD	Baudrate (0=600, 1=1200, 2=2400, 3=4800, 4=9600, 5=14400, 6=19200, 7=38400, 8=57600, 9=115200)	16 bit (word)	4	Read/Write
0x02	UART_PARITY	Parity (0=None, 1=Odd, 2=Even)		0	
0x03	UART_ADRESS	Address information for network connection (1 - 247)		1	
0x04	POS_RESOLUTION	Position Resolution (1µm - 65535µm)		1	
0x05	POS_FILTER	Position Filter 0=2ms(500 Hz), 1=3ms(333Hz), 2=4ms(250Hz), 3=5ms(200Hz), 4=6ms(166Hz), 5=8ms(125Hz), 6=10ms(100 Hz)		6	
0x06	SPEED_STEP	Speed step (1-65535 multiplies of 0.01 mm/s)		100	
0x07	SPEED_FILTER	Speed Fiter (0-128)		64	

INPUT REGISTER ADDRESS TABLE

Input Register Address (hex)	Parameter Name	Parameter Description	Count of Bit	Default Value	Read/Write
0x01	INPT_REG_HPOS	32 bit signed position data high word	16 bit (word)		Read-only
0x02	INPT_REG_LPOS	32 bit signed position data low word			
0x03	INPT_REG_SPEED	16 bit signed speed data (multiplies of 0.01 mm)			
0x04	INPT_ERROR	See Error and Status Data			
0x05	INPT_POS_RESOLUTION	Position Resolution (1µm - 65535µm)		1	
0x06	INPT_POS_FILTER	Position Filter 0=2ms(500 Hz), 1=3ms(333Hz), 2=4ms(250Hz), 3=5ms(200Hz), 4=6ms(166Hz), 5=8ms(125Hz), 6=10ms(100 Hz)		6	
0x07	INPT_SPEED_STEP	Speed step (1-65535 multiplies of 0.01 mm/s)		100	
0x08	INPT_SPEED_FILTER	Moving average filter sample count 0-128		64	

Error and Status Data

Bit No	Name	Valid Value	Description
Bit 0	PosStart	0	Position marker out of stroke
Bit 1	PosEnd	0	Position marker out of stroke
Bit 2	LowLimit	0	Position marker out of measurable area
Bit 3	HighLimit	0	Position marker out of measurable area
Bit 4	ComErr1	0	Internal comm. Error 1
Bit 5	ComErr2	0	Internal comm. Error 2
Bit 6	CrcError	0	Internal CRC Error
Bit 7	LowSignal	0	Insufficient signal level
Bit 8-11	Amplitude1	min 3	Signal amplitude1, higher is better