

## 6. Special Auxiliary Relay & Data Register

Number	Content Of Register	The series of PLC			R	W
				Default		
M8120	Reserved			OFF	-	-
M8121	Send wait flag			OFF	√	√
M8122	Send request flag			OFF	√	√
M8123	Receive complete flag			OFF	√	√
M8124	Carrier detection flag			OFF	√	√
M8125				---		
M8126				---		
M8127				---		
M8128	Modbus CRC checksum error flag			OFF	√	×
M8129	Modbus LRC checksum error flag			OFF	√	×

Number	Content Of Register	The series of PLC			R	W
		J1		Default		
M8130	Y00 FNC(57) PLSY busy flag	○		OFF	√	×
M8131	Y01 FNC(57) PLSY busy flag	○		OFF	√	×
M8132	Y02 FNC(57) PLSY busy flag	○		OFF	√	×
M8133	Y03 FNC(57) PLSY busy flag	○		OFF	√	×
M8134	Y00 FNC(59) PLSR busy flag	○		OFF	√	×
M8135	Y01 FNC(59) PLSR busy flag	○		OFF	√	×
M8136	Y02 FNC(59) PLSR busy flag	○		OFF	√	×
M8137	Y03 FNC(59) PLSR busy flag	○		OFF	√	×
M8138	Y00 FNC(59) PLSR zero return busy flag	○		OFF	√	×
M8139	Y01 FNC(59) PLSR zero return busy flag	○		OFF	√	×

Number	Content Of Register	The series of PLC			R	W
		J1		Default		
M8140	Y02 FNC(59) PLSR zero return busy flag	○		OFF	√	×
M8141	Y03 FNC(59) PLSR zero return busy flag	○		OFF	√	×
M8142	Y00 FNC(157) PLSV busy flag	○		OFF	√	×
M8143	Y01 FNC(157) PLSV busy flag	○		OFF	√	×
M8144	Y02 FNC(157) PLSV busy flag	○		OFF	√	×
M8145	Y03 FNC(157) PLSV busy flag	○		OFF	√	×
M8146	Y00 FNC(158) DRVI busy flag	○		OFF	√	×
M8147	Y01 FNC(158) DRVI busy flag	○		OFF	√	×
M8148	Y02 FNC(158) DRVI busy flag	○		OFF	√	×
M8149	Y03 FNC(158) DRVI busy flag	○		OFF	√	×

Number	Content Of Register	The series of PLC			R	W
		J1		Default		
M8150	Y00 FNC(159) DRVA busy flag	○		OFF	√	×
M8151	Y01 FNC(159) DRVA busy flag	○		OFF	√	×
M8152	Y02 FNC(159) DRVA busy flag	○		OFF	√	×
M8153	Y03 FNC(159) DRVA busy flag	○		OFF	√	×
M8154	Y00 FNC(156) ZRN zero return busy flag	○		OFF	√	×
M8155	Y01 FNC(156) ZRN zero return busy flag	○		OFF	√	×
M8156	Y02 FNC(156) ZRN zero return busy flag	○		OFF	√	×
M8157	Y03 FNC(156) ZRN zero return busy flag	○		OFF	√	×
M8158						
M8159						

## 6. Special Auxiliary Relay & Data Register

Number	Content Of Register	The series of PLC				R	W
		EX <sub>1S</sub>	EX <sub>1N</sub>	EX <sub>2N</sub>	Default		
D8120	Communication protocol format	○	○	○	0368h	√	√
D8121	Station Number	○	○	○	00h	√	√
D8122	Remaining points of transmit data	○	○	○	---	√	√
D8123	Receive data points	○	○	○	---	√	√
D8124	Header (STX)	○	○	○	02h	√	√
D8125	Terminator1 (ETX1)	○	○	○	03h	√	√
D8126	Terminator2 (ETX2)	○	○	○	---	√	√
D8127							
D8128							
D8129	Time-out detection (ms)	○	○	○	200	√	√

Number	Content Of Register	The series of PLC				R	W
		EX <sub>1S</sub>	EX <sub>1N</sub>	EX <sub>2N</sub>	Default		
D8130	Y00 MPG movement ( Lower Word )			○	0	√	√
D8131	Y00 MPG movement ( Upper Word )			○		√	√
D8132	Y01 MPG movement ( Lower Word )			○	0	√	√
D8133	Y01 MPG movement ( Upper Word )			○		√	√
D8134	Y00 MPG following time (ms)			○	10	√	√
D8135	Y01 MPG following time (ms)			○	10	√	√
D8136	Y00 target relative position ( Lower Word )	○	○	○	0	√	√
D8137	Y00 target relative position ( Upper Word )	○	○	○		√	√
D8138	Y01 target relative position ( Lower Word )	○	○	○	0	√	√
D8139	Y01 target relative position ( Upper Word )	○	○	○		√	√

Number	Content Of Register	The series of PLC				R	W
		EX <sub>1S</sub>	EX <sub>1N</sub>	EX <sub>2N</sub>	Default		
D8140	Y00 current absolute position ( Lower Word )	○	○	○	0	√	√
D8141	Y00 current absolute position ( Upper Word )	○	○	○		√	√
D8142	Y01 current absolute position ( Lower Word )	○	○	○	0	√	√
D8143	Y01 current absolute position ( Upper Word )	○	○	○		√	√
D8144	Y00 relative position movement ( Lower Word )	○	○	○	0	√	×
D8145	Y00 relative position movement ( Upper Word )	○	○	○		√	×
D8146	Y01 relative position movement ( Lower Word )	○	○	○	0	√	×
D8147	Y01 relative position movement ( Upper Word )	○	○	○		√	×
D8148	Y00 remain pulse ( Lower Word )	○	○	○	0	√	×
D8149	Y00 remain pulse ( Upper Word )	○	○	○		√	×

Number	Content Of Register	The series of PLC				R	W
		EX <sub>1S</sub>	EX <sub>1N</sub>	EX <sub>2N</sub>	Default		
D8150	Y01 remain pulse ( Lower Word )	○	○	○	0	√	×
D8151	Y01 remain pulse ( Upper Word )	○	○	○		√	×
D8152	Y00 starting absolute position ( Lower Word )	○	○	○	0	√	√
D8153	Y00 starting absolute position ( Upper Word )	○	○	○		√	√
D8154	Y01 starting absolute position ( Lower Word )	○	○	○	0	√	√
D8155	Y01 starting absolute position ( Upper Word )	○	○	○		√	√
D8156	Y00 maximum output frequency ( Lower Word )	○	○	○	100K	√	√
D8157	Y00 maximum output frequency ( Upper Word )	○	○	○		√	√
D8158	Y01 maximum output frequency ( Lower Word )	○	○	○	100K	√	√
D8159	Y01 maximum output frequency ( Upper Word )	○	○	○		√	√

## 6. Special Auxiliary Relay & Data Register

Number	Content Of Register	The series of PLC			R	W
		J1		Default		
M8160	SWAP function	○		OFF	√	√
M8161	8/16bits selection flag	○		---	√	√
M8162						
M8163						
M8164						
M8165						
M8166						
M8167						
M8168						
M8169						

Number	Content Of Register	The series of PLC			R	W
		J1		Default		
M8170	X00 pulse catch	○		OFF	√	√
M8171	X01 pulse catch	○		OFF	√	√
M8172	X02 pulse catch	○		OFF	√	√
M8173	X03 pulse catch	○		OFF	√	√
M8174	X04 pulse catch	○		OFF	√	√
M8175	X05 pulse catch	○		OFF	√	√
M8176	X06 pulse catch	○		OFF	√	√
M8177	X07 pulse catch	○		OFF	√	√
M8178	Reserved			---	-	×
M8179	Reserved			---	-	×

Number	Content Of Register	The series of PLC			R	W
		J1		Default		
M8180	Y00 FNC(59) PLSR Ratio follow busy flag	○		OFF	√	×
M8181	Y01 FNC(59) PLSR Ratio follow busy flag	○		OFF	√	×
M8182	Y02 FNC(59) PLSR Ratio follow busy flag	○		OFF	√	×
M8183	Y03 FNC(59) PLSR Ratio follow busy flag	○		OFF	√	×
M8184						
M8185						
M8186						
M8187						
M8188						
M8189						

Number	Content Of Register	The series of PLC			R	W
		J1		Default		
M8190						
M8191						
M8192						
M8193						
M8194						
M8195						
M8196						
M8197						
M8198						
M8199						

## 6. Special Auxiliary Relay & Data Register

Number	Content Of Register	The series of PLC				R	W	
		EX <sub>1S</sub>	EX <sub>1N</sub>	EX <sub>2N</sub>	Default			
D8160	Y00 current speed (pps) Lower Word	○	○	○	0	√	×	
D8161	Y00 current speed (pps) Upper Word	○	○	○				
D8162	Y01 current speed (pps) Lower Word	○	○	○		0	√	×
D8163	Y01 current speed (pps) Upper Word	○	○	○				
D8164	Y00 acc/deceleration time (ms)	○	○	○	100	√	√	
D8165	Y00 deceleration time (ms) , when M8150 ON effective	○	○	○	100	√	√	
D8166	Y01 acc/deceleration time (ms)	○	○	○	100	√	√	
D8167	Y01 deceleration time (ms), when M8151 ON effective	○	○	○	100	√	√	
D8168	Y00 bias speed (pps)	○	○	○	100	√	√	
D8169	Y00 search servo Z phase times	○	○	○	1	√	√	

Number	Content Of Register	The series of PLC				R	W
		EX <sub>1S</sub>	EX <sub>1N</sub>	EX <sub>2N</sub>	Default		
D8170	Y01 bias speed (pps)	○	○	○	100	√	√
D8171	Y01 search servo Z phase times	○	○	○	1	√	√
D8172	Y00 pulse number of accelerate to maximum speed ( Lower Word )	○	○	○	0	√	×
D8173	Y00 pulse number of accelerate to maximum speed ( Upper Word )	○	○	○			
D8174	Y01 pulse number of accelerate to maximum speed ( Lower Word )	○	○	○	0	√	×
D8175	Y01 pulse number of accelerate to maximum speed ( Upper Word )	○	○	○			
D8176	Y00 Dog Point Absolute Address ( Lower Word )	○	○	○	0	√	√
D8177	Y00 Dog Point Absolute Address ( Upper Word )	○	○	○			
D8178	Y01 Dog Point Absolute Address ( Lower Word )	○	○	○	0	√	√
D8179	Y01 Dog Point Absolute Address ( Upper Word )	○	○	○			

Number	Content Of Register	The series of PLC				R	W
		EX <sub>1S</sub>	EX <sub>1N</sub>	EX <sub>2N</sub>	Default		
D8180	The content of Z0 register	○	○	○	0	√	√
D8181	The content of V0 register	○	○	○	0	√	√
D8182	The content of Z1 register	○	○	○	0	√	√
D8183	The content of V1 register	○	○	○	0	√	√
D8184	The content of Z2 register	○	○	○	0	√	√
D8185	The content of V2 register	○	○	○	0	√	√
D8186	The content of Z3 register	○	○	○	0	√	√
D8187	The content of V3 register	○	○	○	0	√	√
D8188	The content of Z4 register	○	○	○	0	√	√
D8189	The content of V4 register	○	○	○	0	√	√

Number	Content Of Register	The series of PLC				R	W
		EX <sub>1S</sub>	EX <sub>1N</sub>	EX <sub>2N</sub>	Default		
D8190	The content of Z5 register	○	○	○	0	√	√
D8191	The content of V5 register	○	○	○	0	√	√
D8192	The content of Z6 register	○	○	○	0	√	√
D8193	The content of V6 register	○	○	○	0	√	√
D8194	The content of Z7 register	○	○	○	0	√	√
D8195	The content of V7 register	○	○	○	0	√	√
D8196	Y00 MPG electronic gear ratio (numerator)			○	1	√	√
D8197	Y00 MPG electronic gear ratio (denominator)			○	1	√	√
D8198	Y01 MPG electronic gear ratio (numerator)			○	1	√	√
D8199	Y01 MPG electronic gear ratio (denominator)			○	1	√	√