

Function Block



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Reference	FQ_FZ_FH_Control_CP1L
Revision	1.2
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Date	27/10/2017
+ Support	http://support-omron.fr/

Measurement and Scene change for vision system FQ, FZ and FH via Ethernet

Function	Send Measure command (M+Cr)and scene change to an FQ/FZ/FH via Ethernet		
File	FQ_FZ_FH_Control_CP1L.cxf		
PLC available	CP1L-EL, CP1L-EM		
Cond. Of use	FQ/FZ/FH response is stored starting at D32510 D32500 contains the measurement command M + <Cr> or Scene change S +No. The Vision system must be set to TCP protocol		
Restrictions	The function block FQ_FZ_FH_Control_CP1L use TCP socket n°1		
Example			
Documentations	Manual FQ , Manual CP1L-Ex , Manual FZ , Manual FH		

Input Variables

Name	Type	Range	Function
EN	BOOL	OFF-ON	ON = FB executed
IP_Address1 to 4	UINT	0000 - FFFF	FQ/FZ/FH IP Address IP
Connect	BOOL	OFF-ON	Connexion request to the FQ server
SceneNo	UINT	0000 - FFFF	Scene number
ChgScene	BOOL	OFF-ON	Change scene command
Trigger	BOOL	OFF-ON	Measurement command
NoData	BOOL	OFF-ON	The FQ/FZ/FH does no send measurement data

Output variables

Name	Type	Range	Function
ENO	BOOL	OFF-ON	ON : FB processed normally
Connected	BOOL	OFF-ON	Connected to FQ/FZ/FH server
Waiting_Server	BOOL	OFF-ON	waiting for the connection to the FQ/FZ/FH server
Error	BOOL	OFF-ON	Error ocured
ErrorCode	UINT	0000-FFFF	Socket Error Code
RespTimeOut	BOOL	OFF-ON	Response OK<Cr> timed out (1s)
DataTimeOut	BOOL	OFF-ON	Response Data timed out (2s)

Rcv_Counter	UINT	0000-FFFF	Counter of correct response received.
Done	BOOL	OFF-ON	Response is ready to use starting at D32510
LinkOFF	BOOL	OFF-ON	Ethernet disconnection
Cpt_LinkOFF	UINT	0000-FFFF	Ethernet disconnection counter

FINS response code

code	Meaning
0000	Normal end
0105	Local IP address setting error.
0302	CPU Unit error; cannot execute.
1100	TCP socket number is not 1 to 8 or local TCP port number is 0.
110C	Request Switch turned ON during other processing.
220F	Specified socket is already open or already processing an open request.
2211	Unit is busy; cannot execute.
2606	Specified socket is already open as UDP socket; cannot open TCP socket.
2607	Specified Socket Service Parameter Area is already being used for another socket.
000D	Remote IP address parameter error (EACCES).
003E	Internal buffer cannot be obtained due to high reception traffic (ENOBUFS).
0042	Error (EMSGSIZE).
0044	ICMP data received (ENOPROTOOPT).
0045	Error in communications with remote node (ECONNABORTED).
0049	The same port number has been specified more than once (EAD-DRINUSE).
004A	Error (ECONNREFUSED) or the remote node has not been opened as passive socket.
004B	Error in communications with remote node (ECONNRESET).
004C	Remote IP address parameter error (EADDRNOTAVAIL). Wrong parameter designation. An attempt was made to set the local TCP port of the local node to Active Open.
004E	Remote IP address parameter error (ENETUNREACH). The network ID is not in the IP router table or router settings are incorrect.
0051	Remote IP address parameter error (EHOSTUNREACH). The router settings are incorrect.
0053	Communications error with remote node (ETIMEDOUT). No remote node.
0081	The specified socket was closed during open processing.

Timing chart with a PLC scan time fixed to 10 ms

