

ELCO

ABSOLUTE ROTARY ENCODER

EtherNet IP

----编码器使用手册



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前言

1. 本手册适用范围:

适用于 ELCO 公司 EtherNet IP 协议的多圈编码器产品。 通过手册中的信息,您可以在 EtherNet IP 模式下连接控制器运行 EtherNet IP 总线上的多圈编码器产品。

2. 所需基本知识:

本手册假定您具有电气及自动化工程领域的基础知识。 本手册基于发行时的有效数据描述各组件,新组件及参数调整会在新版手册 中更新。

3. 指南:

本手册介绍了 EtherNet IP 协议下多圈编码器的硬件及使用。涵盖范围包括:

- 安装与接线
- 技术特性
- 使用实例
- 技术参数

4. 技术支持:

本手册尽可能全面的描述多圈编码器的产品特性及使用方法,如有疑问或关于此产品的其它问题,请联系当地 ELCO 公司办事处,或拨打服务热线400-608-4005。

您还可以通过 ELCO 公司网站了解更多自动化产品: <u>http://www.elco-holding.com.cn/</u>

5. 责任免除:

我们已对手册中所述内容与硬件和软件的一致性做过检查。 但不排除存在偏差的可能性,无法保证所述内容与硬件和软件的完全一致。 数据参数按规定已进行了相关检测,必要的修改会在新版本中完善。

6. 版权声明



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1. 产品概述

1.1 简介

EtherNet IP 多圈编码器使用高速以太网作为接口通讯总线,高速以太网的应用使编码器在工作中提供比传统现场总线更高的实时性,并实现了完整的 EtherNet IP 通讯协议,可对 EtherNet IP 主站完全支持。

1.2 产品介绍

EtherNet IP 多圈编码器提供了包括实时位置、实时转速、方向设置、单圈分 辨率设置、总量程设定、预置值设置等功能。

1.3 特性

- LED 及屏幕状态指示,并提供在线诊断和通道保护功能
- 具备旋转方向、单圈分辨率、总量程等可配置参数。

1.4 产品型号

EAM58C10-BF6XTR-4096/8192ENND

2. 技术特性

2.1 接口说明

此图片为 EtherNet IP 多圈编码器的示意图。

功能		M12 接	臿件			
	信号:	数据发送+	数据接收+	数据发送-	数据接收-	12
总线接口1	· 缩写:	TxD+	RxD+	TxD-	RxD-	D coded
	针脚:	1	2	3	4	4 3
中独构口	信号:	电源+	-	Voltage -	-	4 3
电你按日	缩写:	+ V	-	0 V	-	A coded
	针脚:	1	2	3	4	
	信号:	数据发送+	数据接收+	数据发送-	数据接收-	1_2
总线接口2	缩写:	TxD+	RxD+	TxD-	RxD-	D coded
	针脚:	1	2	3	4	4 3

端子配置:





EtherNet IP 多圈编码器使用高速以太网作为接口通讯总线,高速以太网的应用使编码器在工作中提供比传统现场总线更高的实时性,并实现了完整的 EtherNet IP 通讯协议,可对 EtherNet IP 主站完全支持。

2.2 硬件参数

电源输入	+24VDC
输入电压	18VDC~30DCV
工作温度	-4080 °C
存储温度	-4585 °C
抗振动性	10G 102000Hz
抗冲击性	50G/11ms
轴负荷	40N 轴向 80N 径向
防护等级	IP65
轴承寿命	109转数

网关



3. 安装尺寸

3.1 尺寸图



4. 使用实例

4.1 设置编码器 IP 地址

4.1.1 使用 BOOTP-DHCP SERVER 软件设置编码器 IP 地址。

注; 电脑上切记不要安装杀毒软件, 并且关闭电脑防火墙, 否则无法搜到编码器 MAC 地址。

bootpserver.cnt			200	04/2	/10	18:4	40		CNT 文件	1
bootpserver			20	19/1	/28	14:	55		应用程序	260
PootpServer			200	04/2	/10	18:4	40		帮助文件	22
	Network Settings								X	
	Defaults									
	Subnet Mask:	0	•	0	•	0		0		
	Gateway:	0	•	0		0		0		
	Primary	0		0		0		0		
	Secondary DNS:	0		0		0		0	-	
	Domain Name:								-	
				OK			Ca	ncel		



(1) 点击 Cancel, 直接进入软件。

BOOTP/DHCP Server 2.3 - 🗌 🗙	10981
File Tools Help	BOOTP/DHCP Server 2.3 — X
Request History	File Tools Help
Clear History dd to Relation Lis	Request History
(hr:min Type Ethernet Address (MAC) IP Address Hostname	Clear History dd to Relation Lis
	(hr:min Type Ethernet Address (MAC) IP Address Hostname
Relation List	
New Delete Enable BOOTP Enable DHCP Disable BOOTP/DHCP	Nelation List
Fthernet Address (MAC) Time TP Address Hostness Description	New Delete Entroite Dicit Distore Dicit/Dicit
Acterise Address (MO) 1790 If Address (Morrison Description	Ethernet Addre New Entry
	Ethernet Address Rc.19-24-50-11-28
	TTP
	Nostname:
Status Entries	Status Entries
0 of 256	OK Cancel 0 of 256

(2) 在 Relation list 中选择 New

(3) 在 New Entry 中通过设置 MAC 地址和需要设置的 IP 地址,然后通过点击 Disable BOOTP/DHCP 进行设置确认。

注:此方法仅适用于前期未设置过 IP 地址的编码器赋值,若已设置过 IP 地址的编码器,

操作方法如下:

1) 如果知道当前 IP 地址,直接进行设置 IP 地址操作;如果不知道当前 IP 地址,则需要借 助 RSLinx Classic 软件在线扫描到相应编码器原始 IP 地址 (比如随机是 192.168.1.30), 然后再通过 BOOTP/DHCP 软件,在 New Entry 中把搜索到的 IP 地址和 MAC 地址写入 到上面视图。

2) 添加完 IP 地址后,首先选中下面视图中编码器,点击 Enable DHCP(删除当前 IP 地址 指令),编码器只有断电后设置指令才能生效.

3) 若清除 IP 地址,需单独将编码器连接电脑,不能挂在 PLC 网络下进行清除 IP 地址。

4) 所有设置好的编码器,通过 RSNetWorx for EtherNet IP 软件组态时,扫描到同一网 段下的设备。



RSLinx Classic Gateway - [RSWho - 2]	
File Edit View Communications Station DDE/OPC Security Window Help	
🗾 🔄 🚈 🛄 🔛 🗰 Browsing - node 192 168 1 20 found	
	× ×
n → ♣ Linx Gateways, Ethernet	
□ 器 AB_ETHIP-2, Ethernet 192.168.1 192.168.1	192.168.1 192.168.1
192.168.1.10, EAM Encoder Multiturn 25 Bit, EAM Encoder Multiu EAM Enc 1769-L24 EAM Enc	EAM Enc EAM Enc
🗉 💥 192.168.1.100, 1769-L24ER-QB1B LOGIX5324ER, 1769-L24ER-QB1	
192.168.1.20, EAM Encoder Multiturn 25 Bit, EAM Encoder Multiu	
🛛 📜 192.168.1.30, EAM Encoder Multiturn 25 Bit, EAM Encoder Multiu	
🛛 📜 192.168.1.40, EAM Encoder Multiturn 25 Bit, EAM Encoder Multiu	
BOOTP/DHCP Server 2.3	- 🗆 X
File Tools Help	
-Request History	
Clear History dd to Relation Lis	
(hr:min Type Ethernet Address (MAC) IP Address Hostname	
-Relation List	
New Delete Enable BOOTP Enable DHCP Disable BOOTP/DHCP	
Ethernet Address (MAC) Type IP Address Hostname Description	
80:19:20:50:11:28 192.168.1.35	
0 0	n . 1
Status	Entries
	1 of 256

(4) 编码器重新上电后,打开 BOOTP/DHCP SERVER 软件搜索到当前编码器(如下图), 双击命令,如下第二张视图,然后对编码器的 IP 地址(需要设置的 IP 地址)进行修改。通 过点击 Disable BOOTP/DHCP 进行设置确认



BOOTP/DHCP Server 2.3 - X BOOTP/DHCP Server 2.5		×
File Tools Help		
Request History Clear History Clear History Clear History		
(hr:min Tume Fthernst Address (MMC) TP Address Hostnume (hr:min Type Ethernst Address (MAC) IP Address Hostnume		^
16:21:34 DMCP 8C:19:20:50:11:28 16:23:30 DMCP 6C:19:20:50:11:28 16:21:24 DMCP 8C:19:20:50:11:28 16:23:30 DMCP 6C:19:20:50:11:28 16:22:24 DMCP 8C:19:20:50:11:28 16:23:30 DMCP 6C:19:20:50:11:28 16:23:30 DMCP 8C:19:20:50:11:28 16:23:30 DMCP 8C:19:20:50:11:28 16:23:37 DMCP 8C:19:20:50:11:28 16:23:37 DMCP 8C:19:20:50:11:28 16:22:27 DMCP 8C:19:20:50:11:28 16:22:27 DMCP 8C:19:20:50:11:28	×	•
Relation List IP D. O. O. Kny [Dalate Field BOTT Fields DOTT	0 -	
New Delete Enable BOOTP Enable DOOTP Disable BOOTP/DREP		
Ethernet Address (DAC) Type IF Address Hostname Description Ethernet Address (DAC) Type IF Address (DAC) Type IF Address (DAC)		-
Status Status	Entrie	5
Unable to service DHCP request from 8C:19:2D:50:11:28. 0 of 256 Unable to service DHCP request from 8C:19:2D:50:11:28.	0 of 2	56

将 IP 地址修改成 192.168.1.30,点击 OK.

注: IP 和网关地址需要与网络和 PLC 地址必须设置一致。

BOOTP/DHCP Server 2.3 -	×			
File Tools Help		BOOTP/DHCP Server 2.3 —		×
Request History		File Tools Help		
Clear Mistory idd to Relation Lis		Request History		
(hr:min Type Ethernet Address (MAC) IP Address Hostname	^	ciear history da to heration Lis		
6:24:23 DHCP & C:19:27:50:11:28 16:24:12 DHCP & C:19:27:50:11:28 16:24:01 DHCP & C:19:27:50:11:28 16:23:51 DHCP & C:19:27:50:11:28 16:23:51 DHCP & C:19:27:50:11:28 16:23:01 DHCP & C:19:27:50:11:28 16:23:19 DHCP & C:19:27:50:11:28 17:27:27:27:27:27:27:27:27:27:27:27:27:27	~	Orr:min Type Fibernet Address Ouc.) IF Address Mostname 16:24:12 DHCP 00:19:20:50:11:28 16:24:12 DHCP 00:19:20:50:11:28 16:24:12 DHCP 00:19:20:50:11:28 16:24:10 DHCP 00:19:20:50:11:28 16:23:51 DHCP 00:19:20:50:11:28 16:23:30 DHCP 00:19:20:50:11:28 16:23:30 DHCP 00:19:20:50:11:28 16:23:19 DHCP 00:19:20:50:11:28 16:23:30 DHCP 00:19:20:50:11:28 16:23:19 DHCP 00:19:20:50:11:28 16:23:10 DHCP 00:19:20:50:11:28 16:23:19 DHCP 00:19:20:50:11:28 16:23:10 DHCP 00:19:20:50:11:28 16:20:10:20 10:20:50:11:28 16:23:10 DHCP 00:19:20:50:11:28 10:20:50:11:28 10:20:50:11:28 16:23:10 DHCP 00:19:20:50:11:28 10:20:50:11:28 10:20:50:11:28 16:23:10 DHCP 00:19:20:50:11:28 10:20:50:11:28 10:20:50:50:11:28		~
Ethernet Address (MAC) Type IP Address Hostmane Description	Petrije	Ethernet Address (MAC) Type IP Address Kostname Description EC:19:20:50:11:28 DMCP 192.168:1.30		
Sent 192.168.1.30 to Ethernet address 8C:19:2D:50:11:28	1 of 256	Status Sent 192.168.1.30 to Ethernet address 8C:19:2D:50:11:28	1 of	256

点击 Disable BOOTP/DHCP,修改成功后会显示 Command successful.

e Tools equest Hist Clear Histo	Help ory ory dd to	Relation Lis					
(hr:min	Туре	Ethernet A	ddress (MAC)	IP Address	Hostname		^
16:24:33	DHCP	8C:19:2D:50	0:11:28				
16:24:23	DHCP	8C:19:2D:50	0:11:28				
16:24:12	DHCP	8C:19:2D:50	0:11:28				
16:24:01	DHCP	8C:19:2D:50	D:11:28				
16:23:51	DHCP	8C:19:2D:50	0:11:28				
16:23:40	DHCP	8C:19:2D:50	0:11:28				
16:23:30	DHCP	8C:19:2D:50	0:11:28				~
Ethernet A	ddress ()	IAC) Type	TP Address	Hostnam	Description		
8C . 19 . 2D . 5	1.11.28	пистр	192 168 1	30	Description		
tatus						II	Intries-

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4.2 编码器组态

***本指导书以 AB-PLC: 1769-L24ER-QB1B 为例

4.2.1 使用 Studio5000 软件建立新项目

- (1) 新建 New Project
- (2) 选择 PLC 的 CPU 型号; 1769-L24ER-QB1B,项目名字 EtherNetTest2020

New Project			?	×	Unew Hoject			_
Project Types			Search	×	1769-L24ER-QB1 shiyan			
💕 Logix	▶ Comp	act GuardLogix® 53	70 Safety Controller	1	Revision:	30 ~		
View CompactLogist ^w 53 1769-L16ER-081 1769-L16ER-081 1769-L16ER-081 1769-L24ER-08 1769-L24ER-08 1769-L24ER-08	actLogix™ 5370 Cont 59-L16ER-BB1B	roller CompactLogix™ 5370 Controller		Security Authority:	No Protection	~		
	170	59-L18ER-BB1B	CompactLogix™ 5370 Controller			Use only the selected Security Authority for authenticati authorization	on and	
	59-L18ERM-BB1B 59-L19ER-BB1B	CompactLogix [™] 5370 Controller CompactLogix [™] 5370 Controller		Secure With:	Logical Name <controller name=""></controller>			
	9-L24ER-QB1B	CompactLogix [™] 5370 Controller			Permission Set	~		
	59-L24ER-QBFC1B 59-L27ERM-QBFC1B	CompactLogix [™] 5370 Controller CompactLogix [™] 5370 Controller		Description:				
	170	59-L30ER	CompactLogix™ 5370 Controller					
	170	59-L30ERM	CompactLogix™ 5370 Controller	-				
	Name:	EtherNetTest2020						
	Location:	C:\Users\zanbin.ga	o\Desktop ~ Bro	owse				

(3) 点击 Finish,完成项目新建。

(4) 打开新建项目,安装导入 EDS 文件,如图:





Rockwell Automation's EDS Wizard	× Rockwell Automation's EDS Wizard ×
Options What task do you want to complete?	Registration Electronic Data Sheet file(s) will be added to your system for use in Rockwell Automation applications.
Gr Register an EDS file(s). This option will add a device(s) to our database.	
 ^C Unregister a device. This option will remove a device that has been register of by an EDS file from our database. 	• Register a single file • Register a directory of EDS files • Table to be file • Table • Table
C Create an EDS file. This option creates a new EDS file that allows our software to relignize your device.	Named: E\J-GSD\9-EtherNet-IP/ELCO_Enc_1213_V08XX.eds Browse
	• If there is an icon file (ico) with the same name as the file(i) you are registering then this image will be associated with the device.
<上一步(8) 下一步(N) > I	

(5) 安装完 EDS 文件后,在 EtherNet IP 网络下右键-NewModule,添加 Elco

EAM58C10-BF6XTR-4096/8192ENND 编码器,点击 Create 创建,如图:

💰 Logix Designer - EtherNetTest2020 [1769-L24ER-QB1]	B 30.11]*	
File Edit View Search Logic Communications Too	15 Window Help ▲ A A De N B C A Select language ↓ Det 2163.1100(CompactBus)7 ↓ 2	
Offline Image: Figure 3 No Forces Image: Figure 3 No Edite Image: Figure 3 Image: Figure 3 Image: Figure 3	日、日、日、日、日、日、日、日、日、日、日、日、日、日、日、日、日、日	ipme
Controller Add On-Defined Controller Tasks Controller Tasks Controller Tasks MainTask MainT	Image: Set Andrew Set	ť

(6) 创建好编码器模块后,双击编码器模块,对编码器进行命名及 IP 设置 (须与在 BOOTP 下为编码器创建的 IP 地址一致),在属性弹出窗口中,点击 "Change" 选项,在 "Module Definition" 窗口中将编码器的数据格式设置为 "DINT",如图:



Logix Designer - EtherNetTest2020 [1769-L24ER-QB1B File Edit View Search Logic Communications Too?	30.11]* s Window Help	
■報酬 ● 米市市 そ2	🎽 🕵 💁 🗽 😰 🖀 🔍 🔍 Select language 🗸 🐼 Patr. 2168.1.100(CompactBus)0* 🗸 🚠	
Offline I. F RUN No Forces I. In Energy Storage No Edits III In Energy Storage III Controller Organizer IIII IIII Controller CherNetTest2020 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	H Hol Hal +> ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++	nMisc. 🛦 File/Shit 🔏 Sequencer 🔏 Equipment Phase 🔏 Equipment
Controller Tags Controller Tags Controller Tags Controller Taut Handler Controller Fault Handler Controller Tauts Controller Fault Handler Tasks MainTask MainT	General" Connection Module Into Internet Protocol Port Configuration Type: EMX5xxv BTKTR-4096(192ENND EAM Encoder Multitum 25 Bit Vendor Elco (Tran sing Electronics Co. Ltd. Parent: Local Description Encoder Description Module Definition Revision: 1001 Electronic Keying: Compatible Modile Connections: VD Compatible Modile Change Estatus: Offline OK Cancel Apply Help	Module Definition Revision: I OUT Concectons V Concectons V Concectons OK Cancel Help

4.2.2 对新项目进行下载测试

程序下载,在选项"Communication"中选择"Who Active",找到对应地址的 PLC 和

下载端口,程序下载,如图:



PLC 在运行模式下,选择"On line"在线,点开逻辑组织界面,在 Scope 选项栏内选择

EtherNetTest2020,可以在 date 数据下监测编码器脉冲数据值。



	📴 🌬 🕼 🖉 🕮 🔍 🔍 🛛 Select Ianauaae	✓ Ø Path:IP-1\192.168.1.	100* 🔻 🐇		
n Run 📶 🗖 Run Made					
Controller OK	Esvorites (Add On (Safety (Alarma)				
Energy Storage OK	(Tavonica X videon X oaley X viams X				
dits 🚔 🖬 I/O OK					
Controller Organizer • • ×	Controllor Tags chivan(control	lor)			
- Controller EtherNetTest2020	Controller rags - sillyan(control	leij			
2 Controller Tags	Scope: EtherNetTest2020 V Show	v: All Tags	~	Y. Enter Name Filter.	~
Controller Fault Handler	Name	Value +	Force Mask + Style	Data Type	Properties 1
Power-Up Handler	E EAM:C	{}	{}	04D0:EAM58xxx	
🗃 🔤 Tasks	EAM:C.Direction Counting Tog	0	Decima	BOOL	Z I S Cxtender V
🕀 🤀 MainTask	EAM:C.Scaling Function Control	0	Decima	BOOL	- General
🖶 🏶 MainProgram	* EAM:C.Measuring Unit Per Sp.,.	8192	Decima	DINT	Description
- Unscheduled	* EAM C. Total Measuring Range	33554432	Decima	DINT	Usage
Motion Groups	* EAM:C.Velocity Format	7940	Decima	INT	Туре
	+ EAM C. Velocity_Filter	0	Decima	INT	Alias For
Add-On Instructions	EAM:I	{}	{}	_04D0:EAM58xxx_	Data Type
Data Types	EAM:I.ConnectionFaulted	0	Decima	BOOL	Scope
	= EAM:I.Data	(1)	{} Decima	DINT[2]	External Access
- Add-On-Defined	EAM:I.Data[0]	24737234	Decima	DINT	Style
Predefined	+ EAM:I.Data[1]	0	Decima	DINT	Required
Module-Defined	EAM:0	{}	{}	_04D0:EAM58xxx_	Visible
- Trends	EAM:O.Data	{}	{} Decima	DINT[1]	🖂 Data
- Logical Model	EAM:O.Data[0]	0	Decima	DINT	Value V
⊟⊟I/O Configuration	* Local:1:C	{}	{}	AB:Embedded_Dis	
🖨 🗊 1769 Bus	± Local:1:1	{}	{}	AB:Embedded Dis	·
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t t a a t a t a t a t a t a t a t a t a	From				
	EITOIS				
< >	· <				
Controller Organizer Logical Organizer	Errors 🗟 Search Results 🗟 Watch				

4.2.3 对新项目进行分辨率和总分辨率进行修改及监控测试

(1) 离线状态下,分别针对以下参数进行修改:

Direction_Counting_Toggle 方向修改

Scaling_Function_Control 使能位 (常规参数)

Measuring_Unit_Per_Span 单圈分辨率

Total_Measuring_Range_in_Measuring_Units 总分辨率

修改后,重新下载到 CPU,数据生效,进行监控。

注: Scaling_Function_Control 使能位置 1 时,常规参数 (单圈分辨率、量程等)才可以设置生效,使能位在置位 0 时,参数设置无效。参数设置完,程序下载至 PLC 后,此时使能位设置 1 或者 0 均不影响转速值。

Offline □ <	hai ↔ ↔ (> ↔ ↔ → avorites ਨੂੰ Add-On ਨੂੰ Salety ਨੂੰ Alarms ਨੂੰ				
Controller Organizer - * *	Controller Tags - shiyan(controller)			- • ×	
⇒ ⇒ Controller EtherNetTest2020 ∧ ⇒ - ≥ Controller Tags	Scope: Scope: Show: All Tags		V Enter Name Filter	~	
😤 🛁 Controller Fault Handler	Name ====	Value •	Force Mask * Style Dati /	Properties 	
Power-Up Handler	= EAM:C	{}	{}041	Extender -	
B ^{-ta} lasks	EAM:C.Direction_Counting_Toggle	0	Decimal BOC	- General	
🖃 🧟 Main Lask	EAM:C.Scaling_Function_Control	1	Decimal BOC	Name	
■ MainProgram	EAM:C.Measuring_Unit_Per_Span	图 8192	Decimal DIN	Description	
	EAM:C.Total_Measuring_Range_in_Measuring	. 33554432	Decimal DIN	Usage	
E Motion Groups	+ EAM C Velocity_Format	7940	Decimal INT	Type	
	* EAM:C.Velocity_Filter	0	Decimal INT	Base Tag	
	= EAM:I	{}	{}041	Data Type	
Blicor Defined	EAM:I.ConnectionFaulted	0	Decimal BOC	Scope	
Strings	EAM:I.Data	{}	{} Decimal DIN	External Access	
Add On Dofined	# EAM:I.Data[0]	0	Decimal DIN	Style	
Predefined	+ EAM:I.Data[1]	0	Decimal DIN	Required	
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(2) 数值读取与设定预设值,如图:

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ag Element Name: EANI:O.Data[0].31							RSLINX Edition:	Classic III

EAM:I.Date[0]转速数值读取;

EAM:O.Date[0]预设值的设定,可以自由输入十进制数值,也可以根据弹出小窗口进行 DINT 数据格式下,对 0~31 位的分别设定高电位。

注: EAM:O.Date[0]预设值的设定需要将第 31 位 (最高位) 先置 1, 即第 31 位 (最高位) 为预置值使能位, 然后再在 EAM:O.Date[0]内输入需求的预设值。预设值设置后, 转速值 将变为预设值。