上海登宏机电制造有限公司

Shanghai Denghong Mechanical & Electrical Manufacturing Co., Ltd

上 海 登 宏 机 电 制 造 有 限 公 司

Shanghai Denghong Mechanical & Electrical Manufacturing Co., Ltd

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DENGHONG MECHANICAL

Deng Hong

公司简介

Company Description

上海登宏机电制造有限公司（即上海登宏纺织配件有限公司）从2004年初成立以来，经过不断努力发展，现成长为国内同行业中具有竞争力供应商。登宏公司具有独自开发、生产能力和一流销售服务团队,得到了用户单位大力支持和信任。

公司主要生产的产品:

（一） 纱线切丝器：适用于各类纺织机械设备。

（二）纱线感丝器：电容式，光电式纱线感丝器。

（三）数字控制盒：多功能，易操作。

我司产品广泛用于用于进口化纤纺织机械设备（如FK6 700型-1000型、SDS、33H、RPR、QDC、ICBT、AFK等），前纺设备（如POY、FDY、HOY等），加弹机，并线机，络筒机，包覆丝机等

公司将不断严谨管理努力创新，以高品质、低价位产品，本着以信誉至上的原则来回报广大用户

Shanghai Denghong Mechanical&Electrical Manufacturing Co., Ltd (Shanghai Denghong Textile Accessories Co., Ltd) was established in 2004. After continuous development, we now have grown to be a competitive company in China. Independent abilities of production, sales and service make us win the trust and support from the clients.

The main products of our company:

I. Yarn cutter: Suitable for various textile machines.

II. Yarn sensor: Capacitive yarn sensor and Optical yarn sensor.

III. Meter counter: Multi-Function and easy operation.

Our products are suitable for the imported chemical fiber textile machines (such as FK6 700 -1000TYPE, SDS, 33H, RPR, QDC, ICBT, and AFK), Fore-spinning devices (such as POY, FDY and HOY), Elasticizers, Doubling Frames, Wining Frames and Covering Machines.

With first-class management, our company will continue to strive for innovation, high quality, and low-cost products. We will be in line with the principle of the supremacy of credibility to reward customers.

开拓 创新 永不止步

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用途

在化纤纺织机械，前纺机械中，当感丝器检测到纱线停滞或者断纱等不利情况并发出报警信号，在报警的同时，感丝器向其连接的自动设备，即切丝器 发出动作信号。切丝器则在接收到规定的控制信号之后释放其切割装置，切断出现问题纱线。

在络筒，并丝等机械中，当锭筒卷绕至规定长度时，纱线则应被立即切断，以保证所生产的锭筒达到预定的要求。通过计米器和切丝器的配合工作，这一任务完全可以自动完成。

工作原理

纱线由两个陶瓷导丝器引导进入切丝器的线槽，当感丝器检测到纱线停滞及断纱等情况时，感丝器会将信号传递到切丝器并释放其机械切割装置使之动作。在切丝器的刀片切断纱线时，与刀片处于同一刀架上的夹取装置将其纱尾夹住。

Functions

In Chemical Fiber machine, fore-spinning machines, when the breakage of stoppage of one or more yarns are detected by the sensor, the sensor will give the operate on duty an alarm with a visible LED flaring signal. It will simultaneously send out an electrical signal to the yarn cutter in order to cut off the broken yarn and grip the cut end by the device attached to the yarn cutter itself.

In winding, spinning, twisting machines, the yarn should be cut off when the bobbin is full. The yarn cutter will work together with meter counter.

Working Principle

The yarn passes through the groove of the yarn cutter, led by two guiders. When the yarn stops moving or break, the yarn sensor sends out an electrical signal to order the yarn cutter to release the blade. The broken yarns will be cut off and gripped by the yarn cutter. e yarn cutter itself.

In winding, spinning, twisting machines, the yarn should be cut off when the bobbin is full. The yarn cutter will work together with meter counter.

产品特征 *Features*

- ☑ 结构紧凑 *Compact construction*
- ☑ 塑料外壳 *Solid plastic housing*
- ☑ 精准切纱 *Accurate cutting of yarn*

ICBT 切丝器 ICBT Yarn Cutter

DHYC001

(1)切丝工作电压	(18-30)V
(2)切丝瞬间电流	<70mA
(3)切丝吸合电流	<15mA
(4)响应时间	0.1秒
(5)切丝能力	300D
(1)Working Voltage	(18-30)V
(2)Shred Instantaneous Current	<70mA
(3)Shred Pull-in Current	<15mA
(4)Response Time	0.1 seconds
(5)Shred Ability	300D

FK6 切丝器 FK6 Yarn Cutter

DHYC002

(1)切丝工作电压	(18-30)V
(2)切丝瞬间电流	<300mA
(3)切丝吸合电流	<160mA
(4)响应时间	0.1秒
(5)切丝能力	500D
(1)Working Voltage	(18-30)V
(2)Shred Instantaneous Current	<300mA
(3)Shred Pull-in Current	<160mA
(4)Response Time	0.1 seconds
(5)Shred Ability	500D

AFK1200 切丝器 FK1200 Yarn Cutter

DHYC003

(1)切丝工作电压	(18-30)V
(2)切丝瞬间电流	<80mA
(3)切丝吸合电流	<10mA
(4)响应时间	0.1秒
(5)切丝能力	1500D
(1) Working voltage	(18~30V)
(2) Shred instantaneous current	<80mA
(3) Shred pull-in current	<10mA
(4) Response time	0.1 seconds
(5) Shred ability	1500D

IVF 701 切丝器 IVF 701 Yarn Cutter

DHYC004

(1)切丝工作电压	(18-30)V
(2)切丝瞬间电流	<80mA
(3)切丝吸合电流	<20mA
(4)响应时间	0.1秒
(5)切丝能力	500D
(1) Working voltage	(18~30V)
(2) Shred instantaneous current	<80mA
(3) Shred pull-in current	<20mA
(4) Response time	0.1 seconds
(5) Shred ability	500D

切丝器 Yarn cutters

ICBT 12E3切丝器 ICBT 12E3 Yarn Cutter

DHYC005

(1)切丝工作电压 （18－30）V
(2)切丝瞬间电流 <70mA
(3)切丝吸合电流 <15mA
(4)响应时间 0.1秒
(5)切丝能力 300D

(1)Working Voltage (18－30)V
(2)Shred Instantaneous Current <70mA
(3)Shred Pull－in Current <15mA
(4)Response Time 0.1 seconds
(5)Shred Ability 300D

ICBT 强力切丝器 ICBT Yarn Cutter

DHYC006

(1)切丝工作电压 （18－30）V
(2)切丝瞬间电流 <80mA
(3)切丝吸合电流 <20mA
(4)响应时间 0.1秒
(5)切丝能力 700D

(1)Working Voltage (18－30)V
(2)Shred Instantaneous Current <80mA
(3)Shred Pull－in Current <20mA
(4)Response Time 0.1 seconds
(5)Shred Ability 700D

RPR切丝器 RPR Yarn Cutter

DHYC007

(1)切丝工作电压 （18－30）V
(2)切丝瞬间电流 <80mA
(3)切丝吸合电流 <20mA
(4)响应时间 0.1秒
(5)切丝能力 300D

(1)Working Voltage (18－30)V
(2)Shred Instantaneous Current <80mA
(3)Shred Pull－in Current <20mA
(4)Response Time 0.1 seconds
(5)Shred Ability 300D

SDS 切丝器 SDS Yarn Cutter

DHYC008

(1)切丝工作电压 （18－30）V
(2)切丝瞬间电流 <70mA
(3)切丝吸合电流 <15mA
(4)响应时间 0.1秒
(5)切丝能力 300D

(1)Working Voltage (18－30)V
(2)Shred Instantaneous Current <70mA
(3)Shred Pull－in Current <15mA
(4)Response Time 0.1 seconds
(5)Shred Ability 300D

FK6 1000切丝器 FK6 1000 Yarn Cutter

DHYC009

(1)切丝工作电压 （18－30）V
(2)切丝瞬间电流 <80mA
(3)切丝吸合电流 <10mA
(4)响应时间 0.1秒
(5)切丝能力 700D

(1)Working Voltage (18－30)V
(2)Shred Instantaneous Current <80mA
(3)Shred Pull－in Current <10mA
(4)Response Time 0.1 seconds
(5)Shred Ability 700D

33H(A) 切丝器 33H(A) Yarn Cutter

DHYC011

(1)切丝工作电压 （18－30）V
(2)切丝瞬间电流 <70mA
(3)切丝吸合电流 <15mA
(4)响应时间 0.1秒
(5)切丝能力 300D

(1)Working Voltage (18－30)V
(2)Shred Instantaneous Current <70mA
(3) Shred Pull－in Current <15mA
(4)Response Time 0.1 seconds
(5)Shred Ability 300D

33H(B) 切丝器 33H(B) Yarn Cutter

DHYC012

(1)切丝工作电压 （18－30）V
(2)切丝瞬间电流 <70mA
(3)切丝吸合电流 <15mA
(4)响应时间 0.1秒
(5)切丝能力 300D

(1)Working Voltage (18－30)V
(2)Shred Instantaneous Current <70mA
(3) Shred Pull－in Current <15mA
(4)Response Time 0.1 seconds
(5)Shred Ability 300D

QDC 切丝器 QDC Yarn Cutter

DHYC013

(1)切丝工作电压 （18－30）V
(2)切丝瞬间电流 <80mA
(3)切丝吸合电流 <20mA
(4)响应时间 0.1秒
(5)切丝能力 700D

(1)Working Voltage (18－30)V
(2)Shred Instantaneous Current <80mA
(3) Shred Pull－in Current <20mA
(4)Response Time 0.1 seconds
(5)Shred Ability 700D

电容式感丝器适用于络纱、捻线、并丝、合纱变形、加弹机等纺织机械上。

基本功能

电容式感丝器可检测各类纱线在纺织机械上的运行状况。在出现纱线停滞或断纱的情况下，感丝器能够及时通知纺织机械自动控制系统，并发出可视报警信号。

工作原理

感丝器探头可测量纱线在运动过程中由其自身携带的静电电荷产生的电压信号，并根据其变化情况来判断纱线的工作状况。测量精度不受灰尘的影响。但油污沾染或剧烈震动等不利工作环境将会降低其测量精度。

Capacitive Yarn sensors are able to be used in Winding, doubling, texturing or Elasticizers and so on.

Main Function

Capacitive yarn sensor can detect the working of various yarns on textile machines. If the yarn breaks or stops, yarn sensor will inform the user via a flashing LED that a position is defective.

Working Principle

Capacitive yarn sensor probe will check tension variations produced by electrical charges of a moving yarn.

产品特征 *Features*

- ☑ 使用标准24伏直流电供给（在18-30伏电压范围内正常工作）
- ☑ 最大输出电流： *1.2A*
- ☑ 提供可视报警功能
- ☑ 反应时间：小于1秒
- ☑ 多种插头满足客户不同需求
- ☑ *Power Supply: 18-30 VDC*
- ☑ *Maximum output current: 1.2A*
- ☑ *Visual alarm (red LED)*
- ☑ *Reaction time: < 1 second*
- ☑ *Various plugs meet different requirement*

33H 感丝器 33H Yarn Sensor

DHYS001

(1)NPN 输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒
(6)有触摸开关功能 （有丝工作时8秒消除）

(1)NPN Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current ＜20mA
(5)Response time ＜1 second
(6)Touching Switch Function
(have to work 8 seconds to trace)

ICBT 感丝器 ICBT Yarn Sensor

DHYS002

(1)NPN 输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒

(1) NPN Output
(2) Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current ＜20mA
(5) Response time ＜1 second

FK6 感丝器 FK6 Yarn Sensor

DHYS003

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜15mA
(5)响应时间 ＜1秒
(6)有触摸开关功能 （有丝工作时8秒消除）

(1)PNP Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current ＜15mA
(5) Response time ＜1 second
(6) Touching Switch Function
(have to work 8 seconds to trace)

W46 感丝器 W46 Yarn Sensor

DHYS004

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒

(1)PNP Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current ＜20mA
(5)Response time ＜1 second

1000(A) 感丝器 1000 (A) Yarn Sensor

DHYS006

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜15mA
(5)响应时间 ＜1秒
(6)有触摸开关功能（有丝工作时8秒消除）

(1)PNP Output
(2)Working Voltage DC (18-30)V
(3) Working current MAX. 1.2A
(4)Static state current ＜15mA
(5) Response time ＜1 second
(6)Touching Switch Function
(have to work 8 seconds to trace)

1000(B) 感丝器 1000(B) Yarn Sensor

DHYS007

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒

(1)PNP Output
(2)Working Voltage DC (18-30)V
(3) Working current MAX. 1.2A
(4)Static state current ＜20mA
(5)Response time ＜1 second

SDS 感丝器 SDS Yarn Sensor

DHYS008

(1)NPN输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒
(6)有触摸开关功能（有丝工作时8秒消除）
(7)自带定重定长信号

(1)NPN Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4) Static state current ＜20mA
(5) Response time ＜1 second
(6)Touching Switch Function (have to work 8 seconds to trace)
(7)Providing weight and length signal

RPR(A) 感丝器 RPR(A) Yarn Sensor

DHYS011

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒

(1)PNP Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current ＜20mA
(5)Response time ＜1 second

QDC(A) 感丝器 QDC(A) Yarn Sensor

DHYS012

(1)NPN输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒

(1)NPN Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current ＜20mA
(5)Response time ＜1 second

RPR(B) 感丝器 RPR(B) Yarn Sensor

DHYS013

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒

(1)PNP Output
(2) Working Voltage DC (18-30)V
(3) Working current MAX. 1.2A
(4) Static state current ＜20mA
(5) Response time ＜1 second

QDC(B) 感丝器 QDC(B) Yarn Sensor

DHYS014

(1)NPN输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒

(1)NPN Output
(2) Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current ＜20mA
(5)Response time ＜1 second

AIKI 感丝器 AIKI Yarn Sensor

DHYS016

(1)NPN输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 ＜20mA
(5)响应时间 ＜1秒

(1)NPN Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current ＜20mA
(5)Response time ＜1 second

电容式感丝器
Capacitive Yarn sensors

ICBT 12E3感丝器 ICBT 12E3 Yarn Sensor

DHYS019

(1)NPN输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 <20mA
(5)响应时间 <1秒

(1) NPN Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current < 20mA
(5)Response time < 1 second

8E3 芯片 8E3 Chip

DHYS021

(1) NPN输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 <20mA
(5)响应时间 <1秒

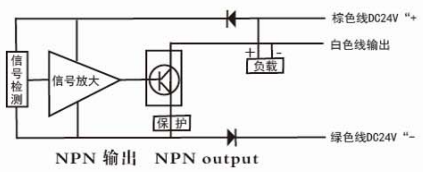
(1) NPN Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current < 20mA
(5)Response time < 1 second

双丝道感丝器 Double Groove Yarn Sensor

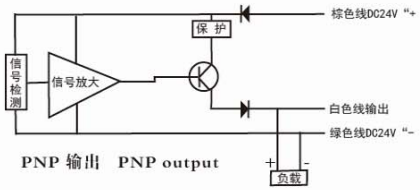
DHYS025

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 <20mA
(5)响应时间 <1秒

(1)PNP Output
(2) Working Voltage DC (18-30)V
(3) Working current MAX. 1.2A
(4) Static state current < 20mA
(5) Response time < 1 second



NPN 输出 NPN output

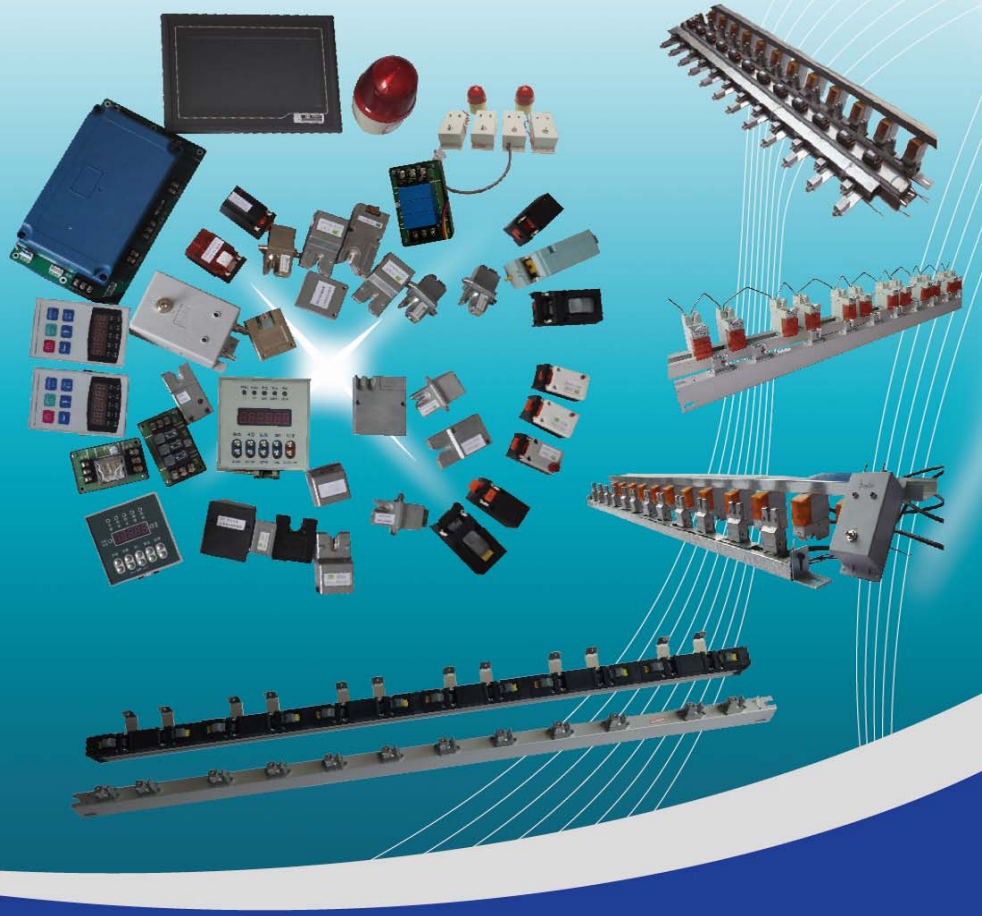


PNP 输出 PNP output

Deng Hong

上海登宏机电

品牌铸就未来



光电式感丝器适用于络筒，捻线，并丝，变形以及加弹机等纺织机械。

基本功能

在纺织机械工作时，当纱线断落或定位停止，感丝器将发出信号给现场工作人员，或者发出指示给停止机器装置或切丝器。

工作原理

探头可测出纱线经过红外光束，并根据位移变化产生的电压变化情况来判断纺纱工作状况。

Optical Yarn sensors are able to be used in Winding, doubling, texturing or Elasticizers and so on.

Main Function

Optical yarn sensor can detect the working of various yarns on textile machines. If the yarn breaks or stops, yarn sensor will indicate a default situation and give the information to the operator by means of LED or give signal to stop device or yarn cutter. or stops, yarn sensor will inform the user via a flashing LED that a position is defective.

Working Principle

As the thread passes through an infrared beam, the variations are processed by the electronic circuits of the optical yarn sensor.

产品特征 *Features*

- ☑ 使用标准24伏直流电供给（在18-30伏电压范围内正常工作）
- ☑ NPN(PNP)输出
- ☑ 最大输出电流： 1.2A
- ☑ 静止时电流：小于20mA
- ☑ 静止时电流：小于20mA
- ☑ 多种插头满足客户不同需求
- ☑ *Power Supply: 18-30 VDC*
- ☑ *NPN(PNP) output*
- ☑ *Maximum output current: 1.2A*
- ☑ *Static current: < 20mA*
- ☑ *Reaction time: < 1 second*
- ☑ *Various plugs meet different requirement*

FDY感丝器 FDY Yarn Sensor

DHYS005

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 <20mA
(5)响应时间 <1秒

(1)PNP Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current <20mA
(5)Response time <1 second

HOY感丝器 HOY Yarn Sensor

DHYS009

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 <20mA
(5)响应时间 <1秒

(1)PNP Output
(2)Working Voltage DC (18-30)V
(3) Working current MAX. 1.2A
(4)Static state current <20mA
(5)Response time <1 second

POY感丝器 POY Yarn Sensor

DHYS018

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 <20mA
(5)响应时间 <1秒

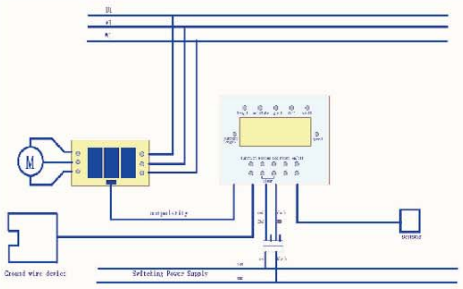
(1)PNP Output
(2) Working Voltage DC (18-30)V
(3) Working current MAX. 1.2A
(4)Static state current <20mA
(5)Response time <1 second

光电感丝器 Optical Yarn Sensor

DHYS027

(1)PNP输出
(2)工作电压 DC(18-30)V
(3)最大输出电流 1.2A
(4)无输出状态下电流 <20mA
(5)响应时间 <1秒

(1)PNP Output
(2)Working Voltage DC (18-30)V
(3)Working current MAX. 1.2A
(4)Static state current <20mA
(5)Response time <1 second



线路连接 DHYA001

功能

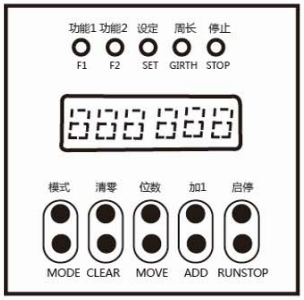
1．计数与计长，本产品能够精确检测被测体（如槽筒等）的转数，通过内部精确计算，可以获得当前的实际转数或长度。
2．周长任意设置：被测旋转体的周长可以任意设置。
3．计长范围大：由于采用6位数码管显示。1米为单位。因此长度表示范围为1M-999999M。
4．具有实时转速或线速监视功能。
5．满筒停机，当实际转数或长度达到设定值时，控制器输出停机信号（继电器触点动作），带动相应的设备动作，设定长度长度数字闪烁。
6．具有开机与停机按钮（停转按钮），人工可以任意控制设备的运行或停止
7．具有3个断纱信号输入口。当设备处于运行状态时发生断纱，控制器自动控制设备停止运行，并提示“yarn”探丝（纱）器使用个数可以定义。本产品可以使用1个或多个探丝器（通过设置“探丝”参数实现）。

Functions

1.Counting length and weight (if for counting weight, it will be pre-order in advance) .
2.Any Circumference setting is available, widely usage of the counting function.
3.Length range: 1m~99999m.
4.It can count the rotate speed and yarn speed at true time .
5.When actual rotate speed or length is same as the setting value, the counter sends the stop-signal to the equipment to stop the machine .
6.Manual operating is available .
7.The counter has 1~3connectorsfor yarn sensors , when yarn breaks, the meter counter sends signal to Relay to stop the machineLED that a position is defective.

按钮

面板共设5个按钮。只要用手指按住按钮超过规定时间，则本次按动有效。
“模式”——用于改变数码管的显示内容或需要设置的参数种类
“清0”——清除已运行长度，使当前长度恢复为0。
“位数”——在设置状态下用于改变参数位置
“加1”——在设置状态下用于改变参数闪烁位置的数值
“起停”——控制相应设备停止或运行
“功能1”—线速度监测
“功能2”—探丝设置
“设定”——长度设置



Board Button

Totally 5 buttons on the board:
“Mode”—Change the digits displaying or Set the parameters.
“Clear” —Clear the running length, and restart from “0”.
“Move”— Change the parameter position under setting status.
“ADD 1” — Change the value of flash digits under setting status.
“Run/off” — Control the relative machine run or off.
“F1” — Monitor the line speed.
“F2” — Set yarn detecting.
“Set” — Set the length.

电气连接

电源：直流稳压24V，功耗2.5W
输出：电流输出能力为0.2A。可以带动1个线圈电压24V的直流继电器或者相同电压的其他执行设备（如电磁周等）。而继电器可以带动电机等设备动作。
输入：计长传感器：24V工作电压，3线制。传感器信号为NPN晶体管C极浮空驱动。
断纱传感器：24V工作电压，3线制。传感器信号为NPN晶体管C极浮空驱动。

Electrical Connection

Power supply: DC 24V. Power consumption: 2.5W
Output current: 0.2A can be connected with a equipment of DC 24V voltage or any other equipment with the same voltage.
Input:
Length Counting Sensor: 24V DC working voltage, 3 lines.
Yarn break sensor: 24V DC working voltage, 3 lines.

操作 Operation

1. 按“模式”按钮改变显示或设置的参数：每按1次，显示或者设置的状态就被依次改变。
2. 在运转状态下只要按模式键的时间超过0.5秒，显示状态便在“当前长度”和“速度”之间变化。
3. 在运行状态下按功能键的时间超过3秒，显示状态变为设置状态的“探丝”，此时进入参数设置状态面板上方的“功能2”灯点亮。 进入了设置状态后，按功能键的时间超过2秒，则显示状态从“功能2”、“设定”、“周长”、“当前长度”之间变化。此时如果设置参数“功能2”、“设定”、“周长”已经被改动，则被改动的参数永久保存。

修改参数

在设置状态下，设备的停止与运行通过按“位数”、“加 1”按钮，可以改变相应参数的值。

设备的停止与运行

每按1次“停转”按钮、相应设备的状态就被改变，即原来处于停止状态的则改为运行状态，原来处于运行状态的则改为停止状态。 如果当前长度达到设定长度，设定长度数字闪烁。机器从运行状态改为停止状态。此时要再次启动机器，必须先清0

当前长度清零

1. 在设备处于停止状态而且控制器处于监视状态下清零键，当前长度便恢复成零。
2. 如果当前长度已经达到设定长度或者没有达到长度时需清零，按下清零键时间达到3秒便可清零。

Operation

1.Once press “Mode” button to change the shown parameter or parameter. The parameter sets every time press the button.
2.When it is running, press “Mode” button over 0.5 seconds the shown status is changed between “current length” and “speed”.
3.When it is running, press “Mode” button over 3 seconds, the show-status is “detecting yarn”, meanwhile, “F2”light turns on. Then press the “F2”button over 2 seconds, the show status is changed among “setting”, “circumference”and “current length”. If change the parameter of “F2”,“setting”, “circumference”at this time, the revised parameter will be kept forever.

Parameter setting

Under setting status, pressing “MOVE”, “ADD 1”button can change the parameter accordingly.

Equipment Run and Off

Press “RUN/STOP” button can change the status of the equipment.
If the current length is same as the setting length, the setting length value is flashing. The equipment will stop. It must clear all values to 0 to restart the equipment.

Clearing the current length

1.When equipment is off and the meter counter is under monitoring, press “CLEAR” button, the current length is to be 0
2.When the current length is same as or less than the setting length, press “CLEAR”button 3 seconds can clear the value.

此套设备功能与特征

1. 集成了启停、卷纱、速度控制、 断纱检测。
2. 本设备采用无刷直流电机驱动，一个无刷电机控制一锭，
每锭独立运行，比变频器控制交流电机驱动的络筒机控制更灵活，互不影响。
3. 一台络筒机能控制两锭，配一个驱动板，两个控制盒，一个控制盒控制一锭。
4. 驱动板220V交流电供电，额定电流3A。
5. 一个驱动板连接无刷电机与控制盒，无刷电机驱动板提供给控制盒24V电源，故控制盒无需另外供电。
6. 根据客户需求，本络筒机可配一个触摸屏总控制终端。

DHYA002

Functions and Features

1.Start/ stop machine, rolling yarns, controlling speed, detecting broken yarns
2.Using brushless DC motor drive, one motor control one spindle. Each spindle is independent and no interference with each other. It is more flexible than the motor controlled by inverter.
3.One brushless motor can control two spindles with one drive-board, two-meter .counters. Each meter counter controls one spindle.
4.Brushless motor can supply 24V power to meter counter, no need power supply again.
5.Drive board voltage: AC 220V; Rated current 3A
6.One set device can be used with a touch screen for terminal control if needed.

控制盒面板

红色按键[O]——控制单锭络筒机的运行与停止
清零 —— 当络筒机停止后，按下清零键，当前长度清零，重新计长。
显示 ——每一次按显示键，速度与计量LED灯轮换亮，同时当前速度和当前长度轮换显示。
设置—— 用于设置参数各种参数。
[◀]键 —— 密码或设置参数值中正闪烁着的数值进位，以此选择位数。
[▲]键——密码或设置参数值中正闪烁着的数值加1，以此修改某位数值或密码。
6位数码管和五个LED灯配合显示，操作过程中LED灯的亮和灭有操作项目的提醒和运行状态的显示作用。

Meter Counter Board

Red button [O] --- Start/Stop the single spindle winding machine
Clear --- When winding machine stop, press “Clear” button to clear the length to zero and count the length again.
Display --- When press “Display” button, “Speed” and “Counting” LED is on by turns. At the same time, the current speed and current length displays by turns.
Settings --- Set all parameters.
[◀] --- Choose the digits when adding numbers of flashing password or setting parameters.
[▲]--- Change a digit or password when flashing digits or password needs to be added 1.

Six digital tubes and LED lights

In operation process, they can remind the operation item and show the running status by turning on or off the lights.

各个LED的用途

（1）停止灯--显示运行状态

停止灯亮代表络筒机停止了，没有运行。反之灭了代表络筒机在运行，已经开机了。

（2）满筒灯：灯亮代表满筒了，反之表示还没有满筒。

（3）速度和计量灯：指示显示内容速度和计量灯用于指示数码管显示的数字代表速度还是长度，如果速度灯亮则代表数码管显示的是络筒机的速度。

（4）定速•定量•周长•防叠：用于显示参数，参数设置的项目。在设置常用参数中，每按一次设置键，亮不同的LED灯，定速LED灯亮，代表当前设置的是速度。

（5）设置1灯亮：表示开始进入设置状态，第一位数码管显示P，可以输入密码了，设置常用参数输入密码001，设置多功能参数输入022.

Function of LED

1.Stop – Show the running status

2.Full cap -- Show the status if full cap

3.Speed and counting – Show the current value

4.Constant speed. Constant ration. Circumference. Anti-yarn overlap: Show the parameters or the setting parameters

5.Setting 1—when the light is on, it starts to set. The first digit shows P, it start to enter the password. Normal fun ction setting password is 001, and for multi-function setting password is 022.

在设置中第一位数码管代表的意义

P——表示选择输入参数的类型，输入密码001，设置常用参数，输入022设置多功能参数。

2——表示正在设置的是变速系数。

3——表示正在设置的是高速保持时间。

4——表示正在设置的是低速保持时间。

5——表示正在设置的是升速时间。

6——表示正在设置的是降速时间。

R——表示正在设置的是启动时间。

b——表示正在设置的是停止时间。

E——表示正在设置的是纱线延时检测时间。

H——表示正在设置的是断纱响应时间。

J——表示正在设置的是探纱器开关。

L——表示正在设置的是满筒清零方式。

The meaning of the first digit when setting:

P – The type of entering parameter: enter password 001, set the usual parameter.

Enter 022, set the multi-function parameter.

2 – Current setting is coefficient of variable speed

3 – Current setting is high speed keeping time

4 – Current setting is low speed keeping time

5 – Current setting is rising speed time

6 – Current setting is reducing speed time

R – Current setting is start time

B – Current setting is stop time

E – Current setting is yarn delay detection time

H – Current setting is yarn broke response time

J – Current setting is switch of yarn detector

L – Current setting is clear way when full ca

操作

1、每按一次红色按键[O],筒纱状态改变——筒纱运行时，按则停转，停止灯亮；筒纱停转时，按则运转，停止灯灭。

2、中途清零（只有在停止后才能清零）——长按清零键2秒，当前长度清零。

3、按显示键参查看速度和当前长度。

4、常用设置参数的查看与设定

[计量]、[◀]、[▲]键及[定速]、[定量]、[设置1]、[周长]、[防叠]5个设置灯）

（1）、进入与查看：按设置键：6位数显进入密码界面“P.000”，输入正确的常用密码（常用密码001），每按一次

设置灯，5个设置灯从左到右轮换闪烁，重回密码界面。

（2）、设定：按[◀]键，密码或设置参数值中正闪烁着的数值进位，以此选择位数。

按[▲]键，密码或设置参数值中正闪烁着的数值加1，以此修改某位数值或密码。

按[设置]键，数码管不闪烁，则刚修改的数值存入有效。

再按[设置]键，设置灯转换，进入新的参数设置。

注：各参数值设定超范围时，自动回到边界值。

（3）、退出设定：按下【显示】按键或一段时间后数显管将自动显示设定前的原显示参数。

Operation

1.Press red button [O], the winding machine running status changed—when the wingding machine runs, press red button(O)can stop it and stop-light is on; when yarn stops, press red button(O)can make it runningand stop-light is off.

2.To clear the value when machine is running (can only stop when stop the machine) – Press the “Clear” button 2 seconds; the current length is clear to zero.

3.Press “Display” button to check the speed and current length.

4.Common parameter checking and setting:

There are five setting lights: [Counting], [◀], [▲] button and [Constant speed], [Constant ration], [Setting 1], [Circu mference], [Anti-yarn overlap].

(1)Enter and Check: Press “Setting” button: Six digits show the password “P.000”, so enter the correct password (it is 001). When press the “Setting” light, the five setting lights will flash by turns from left to right, and return to the pass worddisplay.

(2)Setting: Press [◀] button, to choose the digit when adding numbers of flashing password or setting parameters.

Press [▲] button, to change a digit or password when flashing digits or password needs to be added 1

Press [Setting] button, digital tube stops flashing and the value which changed just now is effective.

Press [Setting] button again, setting lights turns and enter to the new parameter setting.

Notes: when each parameter setting is over the Limitation, the setting value will return the limited value.

(3)Exit setting: Press [Display] button or wait for a while, the digital tube will show the original parameter before set ting automatically.

附表1、面板常用设置参数表（参数4个，断电永久记忆）

设置	项目	范围	说明
设置1灯亮	密码	0~999	001（常用密码）
[定速]灯亮	卷取起始线速	100~110米/分	（2号参数变速系数设为1时）=恒线速
[定量]灯亮	满筒长度	0~999999米	全设9时，单纯计长无自停
[周长]灯亮（注）	圈取周长	0.100~0.500	=卷取轮直径×3.14
	修正第N锭相对周长		=卷取轮直径×3.14×第N锭差率
[防叠]灯亮	防叠速差	0~150米/分	(1)遇容易断纱或驱动器过流保护则减小,遇重叠则加大（2）设0时关闭防叠

Attached table 1: Normal parameter setting table of board.

Setting	Item	Scope	Description
[Setting 1] light on	Password	0~999	001 (Normal password)
[Constant speed] light on	Winding starting speed	100~110 Meters/Min.	Setting"1"as the No.2 parameter speed factor =constant speed
[Constant rotation] light on	Length set value	0~999999 meters	All digits are 9, it only count the length and no self-stop
[Circumference]light on	Circumference	0.100~0.500	= Winding wheel diameter x 3.14
	Resetting spindle circumference		= Winding wheel diameter x 3.14 x the spindle rate
[Anti-yarn overlap] light on	Speed differential	0~150 Meters/Min.	(1) When yarn breaks or the driver current protects the speed differential will decrease. when the yarn overlaps, the speed differential will increase (2) When setting is zero, it stops [Anti-yarn overlap]

多功能设置参数的查看与设定

（[设置][◀]、[▲]键）——6位数显左起第一位为参数号，右五位为参数值，二者以小数点为分。

（1）进入与查看：按[设置]键，5个设置灯全不闪，6位数显进入密码界面“P .000”，每按一次[设置]键，参数号按附表3的顺序转换，重回密码界面。

（2）设定与退出与上述4相同。

Multi function parameters checking and setting:

[Setting] [◀]、[▲] – the six digits are on: the first left one is parameter number, and the right five digits are parameter values. They are divided by the decimal point.

(1)Entering and checking: Press [Setting] button, the five setting lights are not flashing. And sixdigits enter to password interface “P .000”. When press the “setting” button, the parameter number will changed by turns of attached table 3. ret urning password interface.

(2)Setting and exiting operations are same as the above item 4.

附表2、面板常用多功能设置参数表

参数号	项目	范围	推荐	说明或修正方向
0	密码	0—999	022（多功能密码）	
2	变速系数	0.02-1.90	（1）卷取终了线速=本设定值×卷取起始速度 （2）二者之差构成线速变化区间	
3	高速保持时间	0.1—25.5秒	3.0	参数4构成防叠周期。在重叠区检测并调整，遇重叠则逐次减短3号参数值，遇驱动器过流则延长5号参数值，驱动器过压则延长6号参数值，防叠不到位则延长4号参数值
4	低速保持时间	0.1—25.5秒	10	
5	升速时间	0.1—25.5秒	0.5	
6	降速时间	0.1—25.5秒	0.5	
R	启动时间	2.0—25.5秒	5	启动时，遇断头或驱动器过流或遇筒纱打滑则延长
b	停止时间	2.0—25.5秒	3	
E	纱线延时时间检测	0.5-25.5秒	3	遇慢启动时，易误停则延长。设25.5秒时集体关闭探纱器
H	断纱响应时间	0.01-2.55秒	0.05	遇误停探断纱响应时间则延长
J	探纱器开关（注）	数显屏左起6位数与台板上左起6个探纱器相对应——左起第一位无显示，所对应的探纱器始终打开，其余5位数若为1，表示对应的探纱器打开，为0关闭		
L	满筒清零方式	3种	0/自动清零 1/手动清零 2再启动时自动清零	

Attached table 2: Multi-function parameter setting table of board.

Parameter No.	Item	Scope	Suggestion	Description or the amended direction
0	Password	0—999	022（Multi-function Password）	
2	Variable speed factor	0.02-1.90	（1）Winding stopping line speed= this setting value x winding start speed（2）Yarn speed changing range is the two value’s difference	
3	High speed time	0.1—25.5 Seconds	3.0	Parameter 4 formed the Anti-overlap period. the time is detected and adjusted in the overlop area.When there is yarn overlapped the parameter 3 value will decrease gradually. When the current of the driver is too much,the parameter 5 value will be prolonged. When the voltage of driver is too much, the parameter 6value will be prolonged. If overlay is not correct, the parameter 4 value will be prolonged.
4	Low speed time	0.1—25.5 Seconds	10	
5	ACC. time	0.1—25.5 Seconds	0.5	
6	DEC. time	0.1—25.5 Seconds	0.5	
R	Start time	0.1—25.5 Seconds	5	If any broken yarns or driver overflowing orthe yarn slip, the time will be prolonged during starting status
b	Stop time	2.0—25.5 Seconds	3	
E	Yarn delay detection time	2.0—25.5 Seconds	3	At solw-start mode,the time Wii be prolongered by the incorrect stopping All the sensors will be shut off by setting value 25.5s
H	Yarn broke response time	0.5-25.5 Seconds	0.05	When the machine stops incorrectly,the yarn detect or response time will be prolonged
J	Yarn detector switch	The sixth digit from left is corresponds to the sixth yarn detector from left – the first one from the left is no value and the corresponding yarn detector is always open. If the remaining five digits value is 1, the corresponding yarn detectors are open. If the value is 0, the yarn detectors are shut off		
L	Resetting Option	Three ways	0/Resetting Automatically 1/Resetting by hand 2 Resetting Automatically when Restarting	

警告：1.非培训合格人员，禁止操作 2.设备在运转过程中禁止用手接触转动元件及任何可能带有危险的元部件。
Warnings:1.Trained passed technician operate only 2.Touching any running parts or any possible dangerous parts is prohibited when the.

DHYA003

概述Introduction

络筒机总控制能控制所有的控制盒，批量地修改所有控制盒的所有参数，控制所有的络筒机的启停。
This winding machine central controller can control all meter counters. It can set all parameters, start/stop all winding machines at one time.

控制器的安装Installation

将控制器电源连接线(DC24V)接于24V直流电源，控制器采用7寸高清真彩屏。
Connecting the controller power line (DC24V) with the Direct Current Power Supply. The controller is 7 inch high definition color screen.

显示说明 Display

主界面 Main Interface

设置界面Setting Interface

点击右上角设置图标，输入设置密码1234，进入设置界面。
Press the icon in top right corner, and then enter the setting password: 1234. Then you can see the setting interface.

按下“多功能参数设置”按钮，松开后进入“多功能参数设置”设置界面
Press “Multi-function parameter setting” button, and enter the “Multi-function parameter setting” interface

在不知道怎么操作时，请在设置界面中查看帮助。
If any question about the operation, press the “HELP” button in setting interface

在设置界面按下“返回”按钮，松开后返回主界面。
Press “Back” button in setting interface, then you can return the main interface.

操作说明Operation

安装好后，请先设置好参数，再刷新，然后再点启动按钮启动络筒机。

1. 在本控制器中，刷新是指所有的参数（包括常用参数和多功能参数）全部都发送给控制盒。

2. 只有第一次和控制盒连接时，才需要刷新，以后使用都不需要刷新。参数只要发生改变，就会把改变后的参数发送给控制盒。

Set the parameter after installing, then refresh the data. Press the "Start" button to start the winding machine.

Notes:

1. Refreshing data means all parameters of the meter counters are refreshed (including common parameters and multi-function parameters).

2. It needs to be refreshed only the first time connecting the controller with the metter counters. Once the parameters of controller are changed, the ones of meter counters will be changed accordingly. ler can control all meter counters. It can change all parameters one time; Start/stop all winding machines.

如何修改参数Parameter Setting

在参数表格中，点击参数设定所在列对应的参数输入框，弹出键盘，输入参数即可。

In the parameter table, press the input box then write the factors.

修改参数注意事项

1. 输入的参数值是十进制，不要超出参数的范围，超出后，自动返回参数的边界值。

2. “探纱器开关”项参数能控制5个探纱器开关，具体对应哪个，和安装位置有关。
所有参数具体的说明见控制盒说明书。

Notes:

1.The parameter entered is must be decimalism and the value must be within the limitation. If over the limitation, the parameter will back to the limited value.

2."Yarn detector": this parameter can control 5 yarn detectors. Refer to the introduction of meter counter.

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