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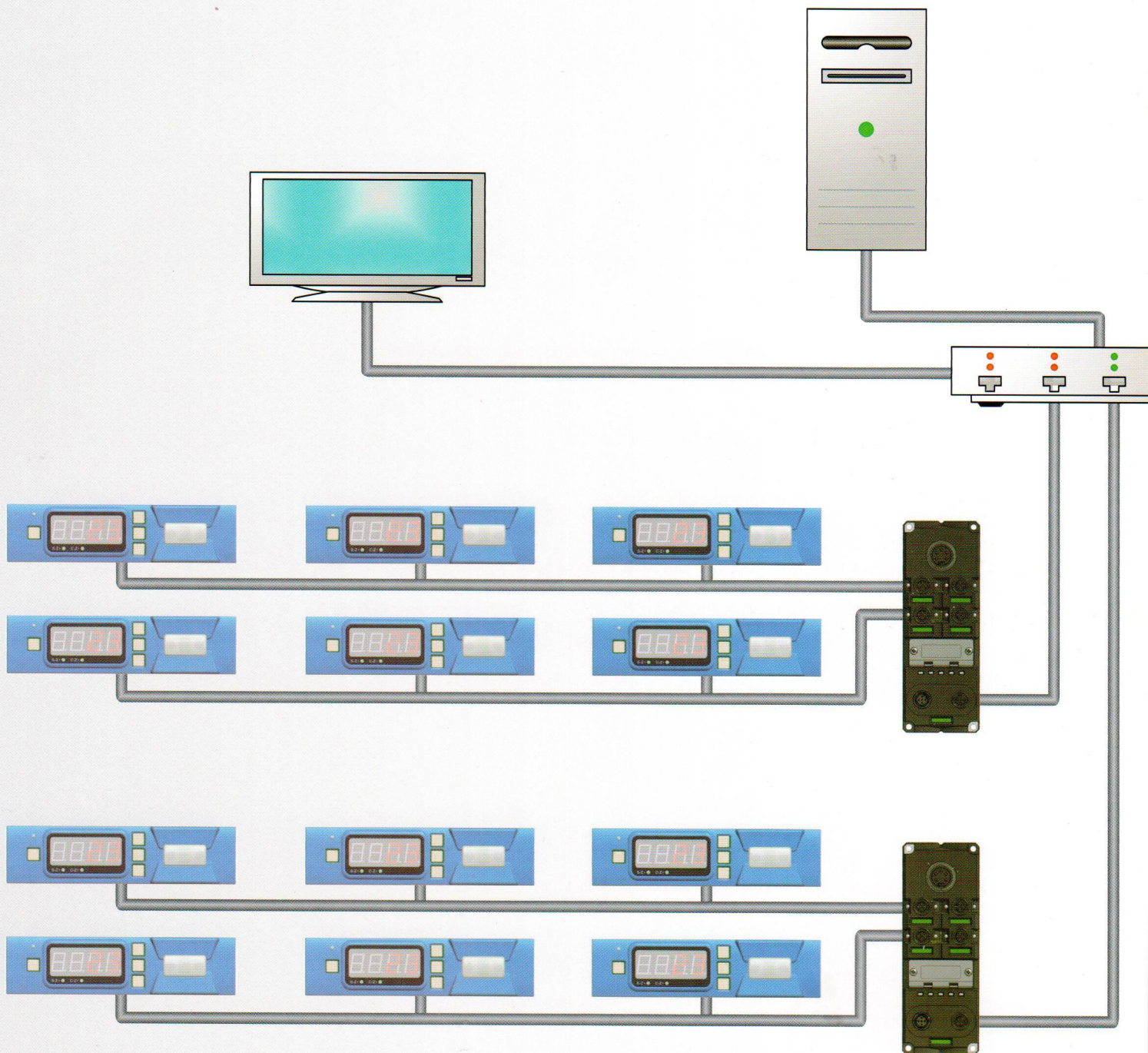


PICK TO LIGHT



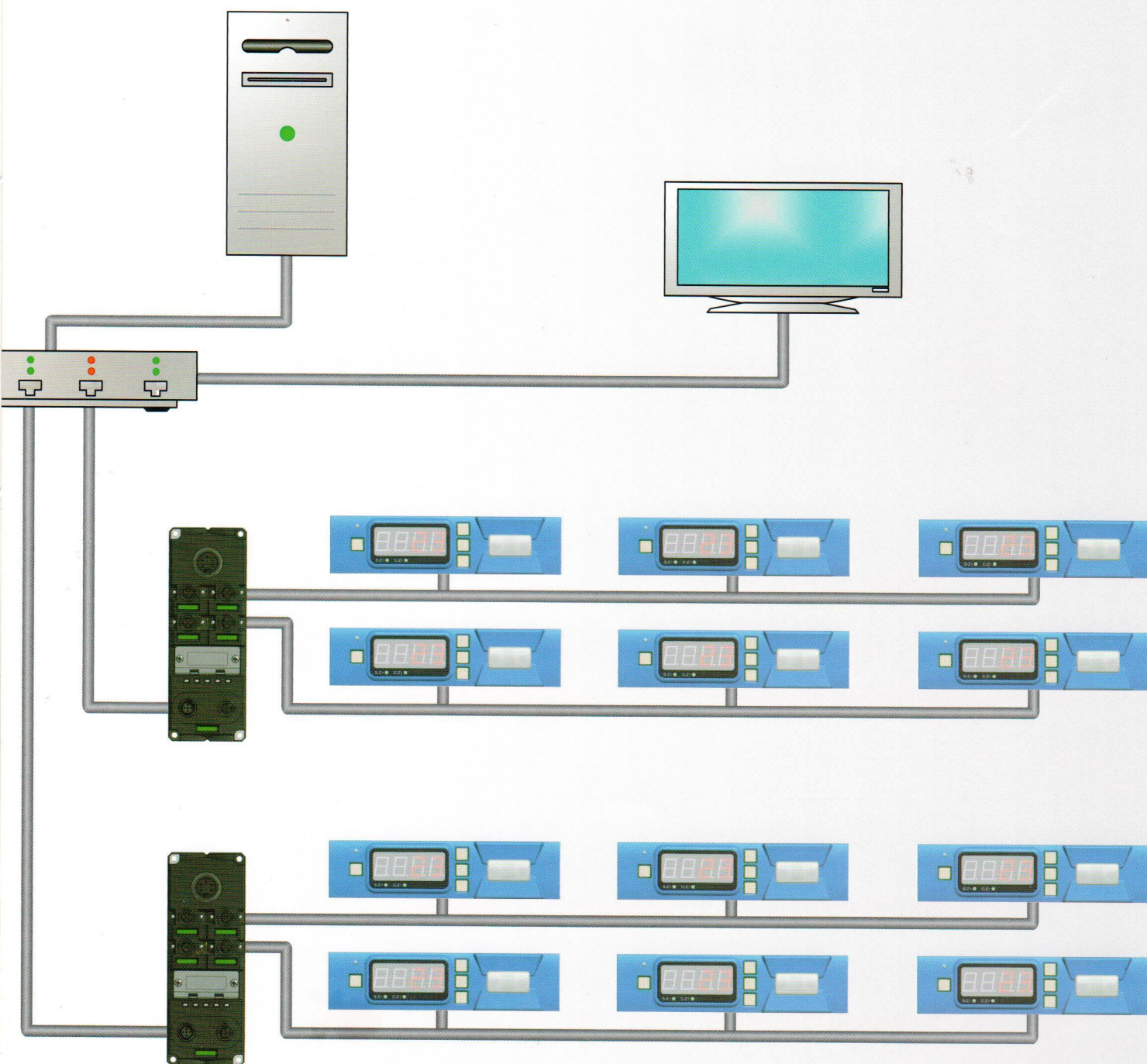
PTL-1510-02

<< PTL System Layout



Features of Display Unit:

- Easy installation and dismounting
- Optional triggering mode by switching lever/button
- System settings configurable by user
- Service life exceeding 30,000 hours
- Parallel real-time communication between display units and host computer
- Intelligent diagnosis and buzzer alarming
- 4-digit display to indicate additional information
- Bi-color trigger button with dual functions for instructions and warnings



Features of Gateway:

- M12 connector for power supply and communication
- Full duplex mode, receiving and sending information simultaneously
- Independent area control to reduce failure rate and improve stability
- Uplink communication based on the combination of RS-485 and EtherNet
- The gateway is connected to the display unit by RS-485
- Protection degree of IP67

<< PTL System

PTL System:

With the continuous expansion and the growing acceptance of industry 4.0, intelligent manufacturing has become the driving factor of the manufacturing industries. Electronic material picking systems (Pick To Light, PTL) are the modern tools to support the production processes in the industries. The PTL system is computer controlled and guides the material picking process in an efficient, fast and easy way. Elco's PTL system not only provides hardware, for example gateways, cables and display units but also a management and control system in cooperation with BOM, Kanban and other production process control software. A PTL system is today indispensable to enhance efficiency in production and enter new levels of intelligent manufacturing and to streamline and manage the supply chain. It also includes reporting functions, statistics and other real time information' s for the assembling personal, operators and line management.

Benefits:

Process Streamlined

- Picking lights of all required parts will light up to allow operator to choose the shortest way to collect the entire part set.

Paperless Process

- No picking instructions and tally marks required. After programming, the PTL system controls the picking process efficiently and fast.

Easy to Operate

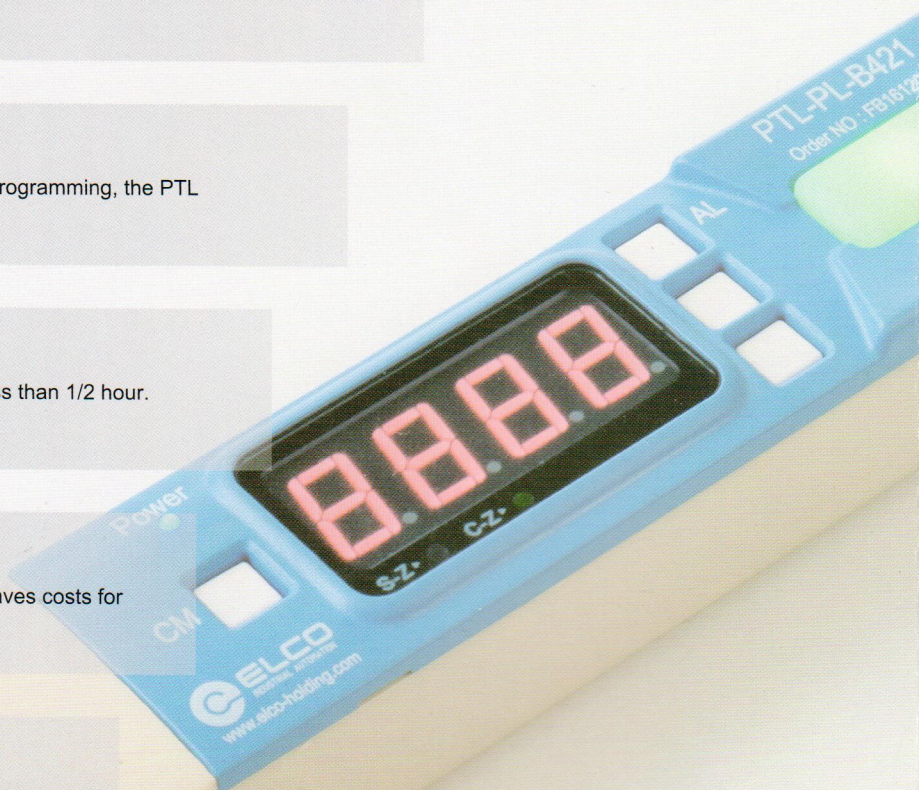
- Very easy to operate. Teaching time for new staff is less than 1/2 hour.

Cost Saving

- Easy to integrate with existing ERP, WMS and WCS, saves costs for additional third party software.

Flexible

- Configuration settings by user. Modifications or new assembling processes can be implemented very fast.



Industrial Application

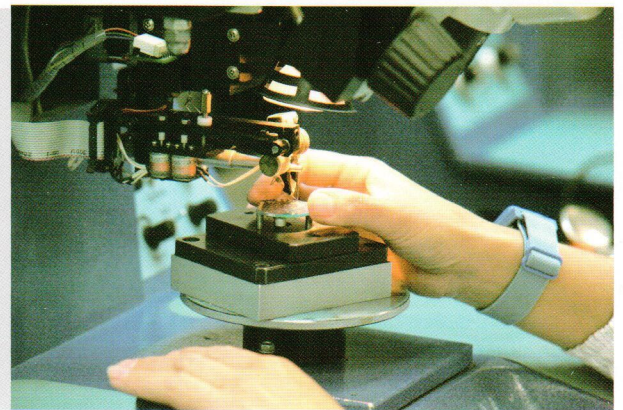


Automotive

Usually an automobile consists of thousands of different parts. That represents a huge challenge for the automakers. The PTL system is the ideal tool to improve processes. It ensures accuracy and efficiency for the vehicle assembling and helps to organize spare part management.

Electronics

Electronic components are in general small and various. The PTL supports BOM for electronic components and generates efficient material picking solutions for SMT and AGV lines as well as for manual assembling lines or feeding machines.

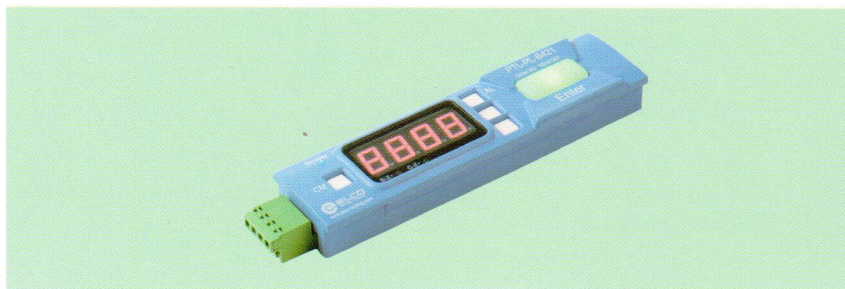


Supplier & 3PL

Suppliers and 3PL need to deal with numerous products and orders. The flexible hard- and software configuration of the PTL system helps them to improve the accuracy and efficiency of their services.



Electronic Tag

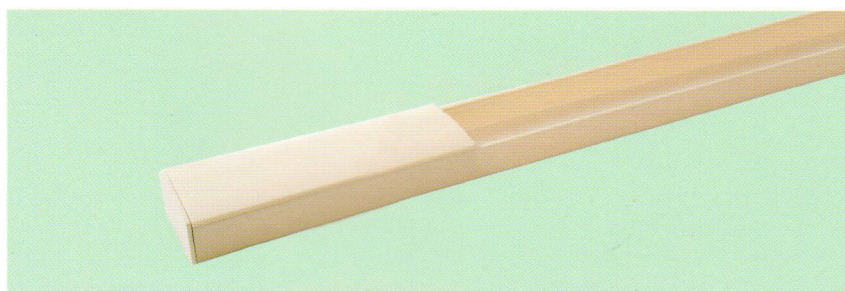


Product Features :

- RS-485 bus protocol
- Fast connection, flexible extension
- Independent LED for each display unit
- Protection degree IP20

Type	PTL-PL-B421	PTL-PL-S421
Description	Display Unit with Button	Display Unit with Switching Lever
Interface		
Power/Signal Interface	5.0mm connector	
Electrical Parameter		
Working Voltage	24VDC (18...30V)	
Working Current	≤100mA	
Communication	RS-485	
Protection Degree	IP20	
Working Temperature	-25...+70°C	
Module Size	160mm x 40mm x 23mm	160mm x 40mm x 45mm

Cable Trunking

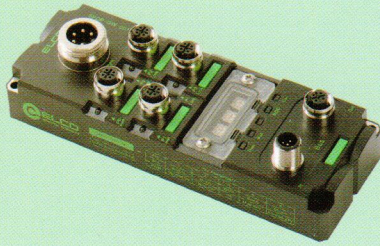


Product Features :

- Fast and easy installation
- Compact and space saving
- Suitable for any type shelf

Type	PTL-WS-S20004020	PTL-WS-C200040	PTL-WS-P4020
Description	Trunking	Trunking Cover	Trunking End Cover
Parameter			
SPC.	2000mm x 40mm x 20mm	Matching Trunking	Matching Trunking
Material	PVC		
Fire Rating	UL94V-0		
Working Temperature	-25...+70°C		

Gateway



Product Features :

- RS-485 bus protocol
- Fast connection, flexible extension
- Independent LED for each display unit, short circuit protection
- Protection degree IP67

Type	PTL-GW-M00
Description	PTL Gateway
Communication	RS-485
Interface	
Power Interface	1 male 7/8"
Bus Interface	Male Input+Female Output, M12 B-code
Signal Interface	4 Female M12 B-code
Electrical Parameter	
Working Voltage	24VDC (18...30VDC)
Working Current	≤100mA
Transmission Rate	115.2K
Protection Degree	IP67
Working Temperature	-25...+70°C
Module Size	600mm x 155mm x 30mm

Connector



Product Feature :

- Cable length made up as per customer requirement.
- Cable for special application upon request
- Plug-in connector for easy installation in the field

Type	1A5000-34	ES06-52	BA5S06-32
Description	7/8" Female 5-core for Gateway Power	D-code Male for Serial Server	B-code Male for Display Unit
Paramater			
Connector Material	Nylon +Rubber+Nickel-plated Brass		
Voltage Grade	250V		
Protection Degree	IP67		
Working Temperature	-25...+70°C		