DynaPCN 10-30

PEOPLE COUNTER - ToF Sensor - Classification - Serial - Ethernet - PoE

- **Classification**
- **Drop-in Replacement for Previous Generation**
- **Easy Installation**
- **Automotive and Rolling Stock certifications**
- **Antitamper**

Features

Classification : The DynaPCN 10-30 enables adult vs child classification

Drop-in Replacement : Form, Fit and Function replacement for previous generations of Eurotech People and Passenger Counters (PCN-1001, DynaPCN 10-20), including the serial versions

Easy Installation : A greatly improved mechanical designed dramatically simplifies and accelerates the physical deployment in the vehicle

Automotive and Rolling Stock : Certified for E-Mark and EN50155, EN45545, with extended operating temperature, isolated interfaces and a wide range, protected power supply

Antitamper : An antitamper mechanical design eliminates the need for a service panel and greatly improves the physical resilience against physical tampering

Open, No-lock-in : Based on open standards and Cloud agnostic, it can be integrated with all major platform and service providers

Description

The DynaPCN 10-30 is a rugged People Counter certified for Public Transport, Road Vehicles and Rolling Stock applications.

The DynaPCN 10-30 provides adult vs child out-of-the-box capabilities and can optionally support additional classification models to enable the recognition of bicycles, strollers, wheelchairs; additional ad-hoc classification models can be developed as a professional service.

The DynaPCN 10-30 offers a simple and efficient opportunity to adopt or migrate to the most advanced requirements: for new deployments, it provides a smooth path towards ITxPT as a professional service, while for existing fleets, it brings the latest capabilities while keeping a Form-Fit-Function compatibility with Eurotech previous generation People/Passenger counters, including the ones based on serial communication.

The physical installation time is very fast, thanks to an improved mechanical design that positions the connector in an installer-friendly location and that offers a range of options for cabling, from rugged low-cost DB15 up to M12

The DynaPCN 10-30 also provides a high level of tamper resistance with an innovative design that eliminates the need for a service panel (in some SKUs), removing a critical attack point and delivering at the same time a superior aesthetic experience.

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Ordering code: DYPCN-10-30-XX					
XX		-01*	-02*	-03	-12
VISION	3D Camera	Time of Flight, QVGA @30 fps Resolution			
	2D Camera	RGB, 2Mp Resolution			
COUNTING	Accuracy	>99%			
	Precision	>99%			
ILLUMINATOR	Type	Infrared 850nm Wavelength			
3D CLASSIFICATORS	Classes	Adults/ Children			
AI CLASSIFICATORS*	Classes	Factory Option: Bicycles, Wheelchairs, Strollers (Contact Eurotech for details)			
VIDEO	Live Streaming	H.264			
	Event Recording	Factory Option (contact Eurotech for details)			
I/O INTERFACES	Ethernet	No	1x 10/100Mbps		
	PoE	No			Yes
	Serial	1x RS-485 Isolated	No	1x RS-485 Isolated	No
	Digital I/O	1x Digital IN (Optoisolated)			
MAINTENANCE	Service Panel	Yes, Magnetic Cover (Contact Eurotech for details)	No Service Panel		
OTHER	RTC	Yes, with SuperCAP (up to 15 Days Retention)			
	EEPROM	256 Kbit			
	LED	1x System, 1x Maintenance			
CONNECTORS	System Connector	1x DB15HD			
POWER	Input	6-60VDC (24 and 48VDC Nom) Surge, Noise, Rev Polarity, Overvoltage & Short Protection, Load Dump			PoE+
	Consumption	<10W Typical (15W Max.)			<10W Typical (13W Max.)
ENVIRONMENT	Operating Temperature	-40 to +70 °C OT4/ST1 class H1 (according to EN 50155)			
	Storage Temperature	-40 to +85°C			
	Humidity	5 to 95% Relative Humidity (Non-condensing) at +40°C			
CERTIFICATIONS	Regulatory	UE/UK: CE; North America: FCC, ISED			
	Safety	IEC 62368-1, UL 62368-1 (§)			
	Rolling Stock	EN50155, EN45545			
	Automotive	E-Mark R10; Designed for ITxPT (Contact Eurotech for details)			
	Environmental	ROHS3, REACH			
	Ingress	IP65			
MECHANICAL	Enclosure	Material: Aluminum – Magnesium Alloy			
	Dimensions	Frame: 100 x 230 x 3 mm (Height x Width x Thickness); Cut-Out: With Frame at 0°: 82 x 208.5 x 42 mm (Height x Width x Depth), With Frame at 20°: 82 x 208.5 x 57 mm (Height x Width x Depth). Mechanically Compatible with Eurotech DynaPCN Family			
	Installation Height	2.0m Min**, 2.5m Max.			
	Detection Width	1.6m Min**, 2.0m Max.			

§ UL, NRTL listing Factory Option.

* Contact Eurotech for more information about availability and MOQ

** Installation height can also be lower than the value indicated, and the detectable width can be slightly different. These variations depend on the real operating conditions.

The DynaPCN 10-30 has a male DB15HD connector on the rear side for power supply and data connection.

There are three way to connect the DynaPCN 10-30:

– Customer-made connection

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– Bundles (connector box) connection
– Cable-adapters connection

Bundles (connector box) connection:

DynaPCN 10-30 + Connector Box			
Ordering Codes	DYPCN-10-30-21*	DYPCN-10-30-01 + Connector Box (Type A)	FFF for PCN-1001 (DYPCN-10-01-00)
	DYPCN-10-30-22*	DYPCN-10-30-02 + Connector Box (Type B)	FFF for DYPCN-10-20-xx
	DYPCN-10-30-23	DYPCN-10-30-03 + Connector Box (Type B)	FFF for DYPCN-10-20-xx
	DYPCN-10-30-42	DYPCN-10-30-12 + Connector Box (Type B)	FFF for DYPCN-10-20-xx

* Contact Eurotech for more information about availability and MOQ

Cable-adapter connection:

Cable-adapters		
Ordering Code	Contact Eurotech	1x DB15HD to 1x M12
	Contact Eurotech	1x DB15HD to 1x M12 Eurotech DynaPCN 10-20-xx
	Contact Eurotech	1x DB15HD to Other Style (Factory Option)

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