



More Precision

IF2030 // Interface module for Industrial Ethernet connection



PROFI[®]
NET EtherNet/IP[®]

Interface module for connection of
Micro-Epsilon sensors to Industrial Ethernet

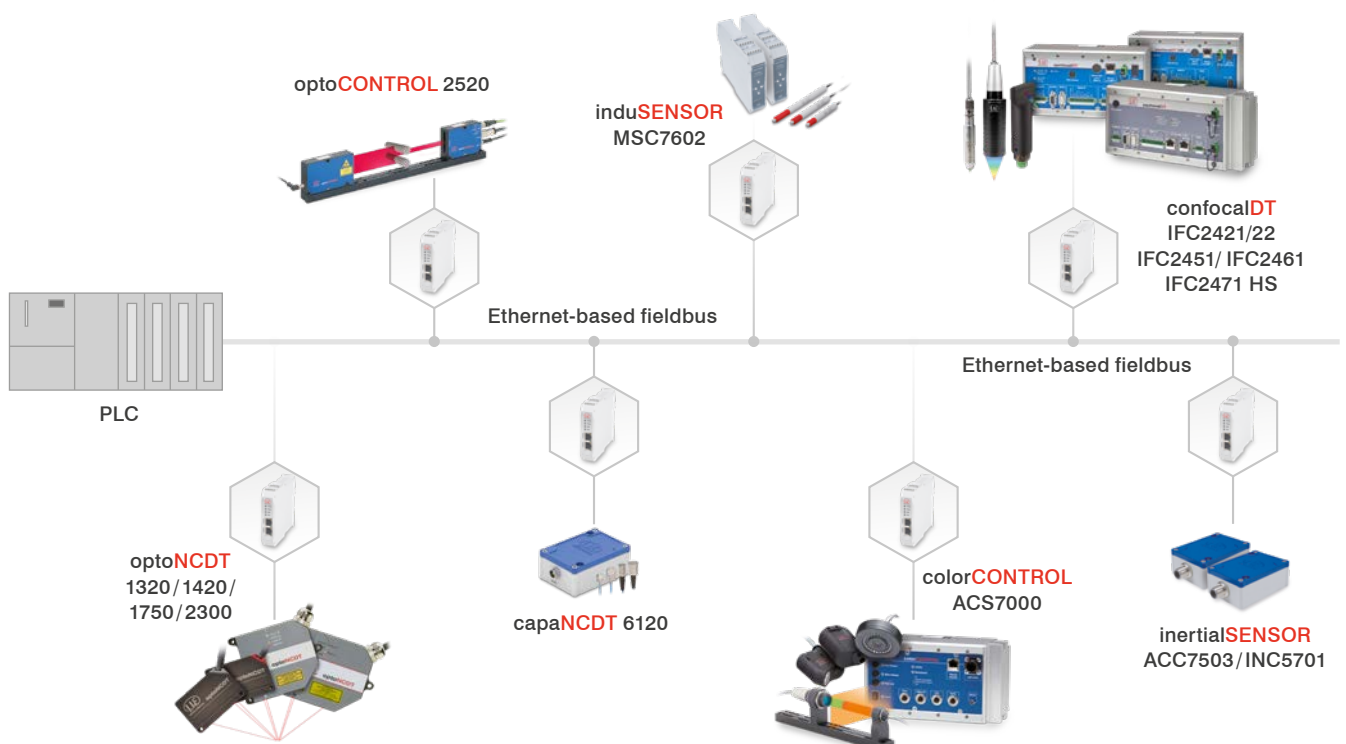
IF2030



- Available for PROFINET and EtherNet/IP
- 1-channel system
- Compatible with Micro-Epsilon sensors with RS422 and RS485 interfaces
- Synchronization output for RS422 sensors
- LED status display
- DIN rail housing

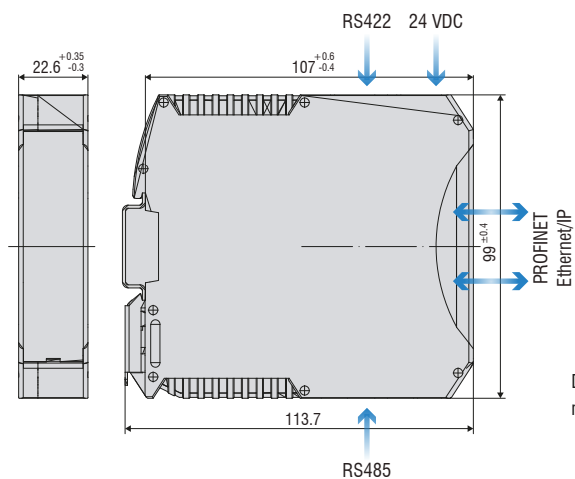
The IF2030 interface modules are designed for easy connection of Micro-Epsilon sensors to Ethernet-based fieldbuses (e.g., plant control systems). The PROFINET and Ethernet/IP modules are compatible with sensors that output data via an RS422 or RS485 interface. These modules operate on the sensor side with up to 4 MBd and have two network connections for different network topologies. Installation in switching cabinets is via a DIN rail.

The interface modules are compatible with multiple sensors:



Model	IF2030/PNET	IF2030/ENETIP
Speed	PROFINET: 1 ms update time	EtherNet/IP: 1 ms update time
Supply voltage	9 ... 36 VDC	
Power consumption	approx. 2.5 W with 24 VDC (without sensor)	
Digital interfaces	RS422, RS485 (with Micro-Epsilon specific data protocol)	
	Baud rate 9600 Bd ... 4 MBd	
	Profinet (COM0 and COM1)	EtherNet/IP (NS and MS)
Digital output	Synchronization (TTL, HTL) for RS422 sensors	
Connection	2 x RJ45 for fieldbus, 4 screw terminals for sensor connection and power supply	
Installation	DIN rail 35 mm	
Temperature range	Operation	0 ... 50 °C
	Storage	-20 ... 70 °C
Humidity	5 % ... 95 % (non-condensing)	
Protection class (DIN-EN 60529)	IP20	
Vibration (DIN-EN 60068-2-6)	2 g, sinusoidal excitation with 50 ... 2000 Hz, 10 cycles, 3 axes	
Shock (DIN-EN 60028-2-27)	5 g, 6 ms, 1000 shocks, 3 axes in 2 directions each	
Compatibility	RS485	inertialSENSOR ACC5703, INC5701
		capaNCdT 6120
		induSENSOR MSC7401, MSC7602, MSC7802
	RS422	optoNCdT 1320, 1420, 1750, 2300, 1900
		confocalDT 242x, 24x1
		colorCONTROL ACS7000
	optoCONTROL 2520	
Software integration into PLC	GSDML file ¹⁾	EDS file ¹⁾
Certification	PNIO V2.33	CT16
Control and Display Elements	4 status LEDs (system, status, COM0, COM1)	4 status-LEDs (system, status, NS, MS)
Weight	120 g	

¹⁾ Download on the Micro-Epsilon website



Dimensions in mm,
not to scale

EtherNet/IP[®]

PROFI[®]
NET

Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, distance and position



Sensors and measurement devices for non-contact temperature measurement



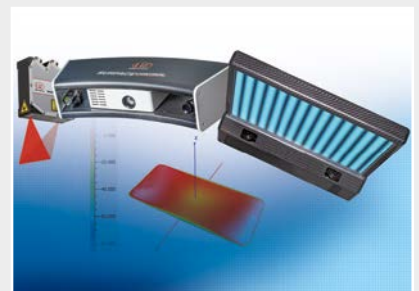
Measuring and inspection systems for metal strips, plastics and rubber



Optical micrometers and fiber optics, measuring and test amplifiers



Color recognition sensors, LED analyzers and inline color spectrometers



3D measurement technology for dimensional testing and surface inspection