



Overview

MFP **AUTOMATION ENGINEERING**

IO-Link devices

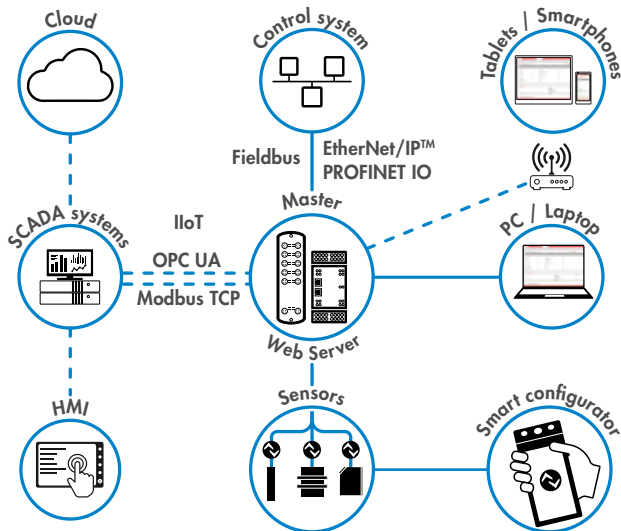


Overview

IO-Link devices

Universal, smart and easy

The use of fieldbus and manufacturer independent IO-Link communication protocols have significantly increased the visibility of processes, thanks to the full access to IO-Link device parameters, diagnostics and process data from the controller. Carlo Gavazzi IO-Link solution provides new ways of accessing, communicating, and processing data, with continuous, and extensive feedback on machine status.



IO-Link, The “USB interface” for sensors and actuators

Universal, worldwide recognized open industrial communication protocol (IEC 61131-9), allows IO-Link enabled devices to exchange process values, parameters or diagnostic messages, via the standard unshielded 3-wire industrial cables.

Centralised configuration and data management

IO-link enables fast configuration and dynamic changes to the sensor's parameters on the fly, which considerably increases the flexibility and diversity of the installation.

Automatic device reconfiguration

In case of device failure the IO-Link Master will automatically check if the new connected device is the right one and re-configure it with the same parameters stored for the old device, preventing incorrect settings.

Simplified maintenance

Thanks to IO-Link, travelling time to reach the plant and stop the machine is no longer necessary. For devices located in a remote area with difficult access, detailed diagnostics and parameter adjustment is now available from any location.

Drive predictive maintenance

IO-Link devices continuously deliver data on their condition and help to predict when a machine needs repair or the replacement of parts. Instead of unnecessary, frequent preventive maintenance, service is need-based reducing machine downtime and maintenance cost.

Capacitive, inductive and photoelectric sensors

Our sensors combine their excellent features with the benefits of the IO-Link standard. Unlimited combinations of functions are now available from output configurations to customized sensing distance and advanced sensing modes. Integrated logging functions of operational hours and power cycles offer advanced diagnostics mechanisms to make both real-time and historic data available. Advanced parameters such as Quality of Run, give an indication of the actual sensing performance of the sensor and help to avoid unplanned interruption of the machines.



Y series DIN-rail and Machine mount IO-Link Masters

The IO-Link Masters allow connection to up to 8 smart devices to the higher-level control system and support the industry's leading Ethernet protocols, such as EtherNet/IP™, PROFINET IO, and MODBUS TCP.

Thanks to the on-board OPC UA server, which runs in parallel without interfering with the main control system, it is possible to simultaneously access the data of the attached smart devices from cloud-based applications via OPC UA clients. The integrated web server and IODD interpreter allow workers to easily configure and access diagnostic information of the IO-Link master and attached devices via a web browser, also remotely from PC or tablets.



SCTL-55 smart configurator, industry 4.0 in your hand

The SCTL-55 is the first and most innovative handheld, self-powered and user-friendly device for identification, configuration, and diagnostics of IO-Link sensors and actuators without the need of any additional hardware or dedicated software.

After plugging in the sensor to one of the integrated M12 or M8 connectors, it will automatically download the IODD file, through Wi-Fi and display all data immediately. Through a 5.5" HD touchscreen display and user-friendly interface the user can view, modify, and optimize even the most complex device very quickly.



IO-Link devices

Feature by family

Group function	Function	Inductive	Capacitive	Photoelectric
	Family	D4, M5, M8, M12, M18, M30	M18, M30	LD30
IO-Link	IO-link v1.1	▼	▼	▼
	Automatic device reconfiguration (replacement)	▼	▼	▼
	Transmission speed: COM 2 (38.4 kBaud)	▼	▼	▼
	SDCI standard: IEC 61131-9	▼	▼	▼
	SIO (standard Input/Output mode) / IO-Link mode	▼	▼	▼
	Required IO-Link master port type: A	▼	▼	▼
	Minimum process cycle time	10.4 ms	5 ms	5 ms
	Smart sensor profile	▼	▼	▼
Detection 1	SSC1 or BDC1	BDC1	SSC1	SSC1
	Adjustable Sensing Distance	▼	▼	▼
	Adjustable Hysteresis	▼	▼	▼
	Single Point Mode	▼	▼	▼
	Two Point Mode	▼	▼	▼
	Window Mode	▼	▼	▼
	Detection filter function	▼	▼	▼
	Dust alarm	▼	▼	▼
Detection 2	SSC2 or BDC2	BDC2	SSC2	SSC2
	Adjustable Sensing Distance	▼	▼	▼
	Adjustable frequency detection	▼	▼	▼
	Adjustable Hysteresis	▼	▼	▼
	Single Point Mode	▼	▼	▼
	Two Point Mode	▼	▼	▼
	Window Mode	▼	▼	▼
	Detection filter function	▼	▼	▼
Sensitivity control	Dust alarm	▼	▼	▼
	Temperature alarm	▼	▼	▼
	External input	▼	▼	▼
	Teach or configuration by IO-Link	▼	▼	▼
Logic functions	Trimmer input	▼	▼	▼
	Teach by wire	▼	▼	▼
	Logic function (AND/OR/X-OR/Gated SR-FF)	▼	▼	▼
	High temperature	▼	▼	▼
Logging functions	Low temperature	▼	▼	▼
	Operating cycle	▼	▼	▼
	Operating hour	▼	▼	▼
	Download counter	▼	▼	▼
Timer functions	Power cycle	▼	▼	▼
	On-delay	▼	▼	▼
	Off-delay	▼	▼	▼
	On and Off delay	▼	▼	▼
Other features	One Shot (leading or trailing edge)	▼	▼	▼
	Actual temperature	▼	▼	▼
	Actual switching frequency	▼	▼	▼
	Number of detections (since start up)	BDC1	SSC1	SSC1
Output 1	Quality of run	▼	▼	▼
	Quality of teach	▼	▼	▼
	Analogue output (via IO-Link)	▼	▼	▼
	LEDs on/off	▼	▼	▼
Output 2	Divider function (count-down function, RPM)	▼	▼	▼
	Find My Sensor Flashing LEDs	▼	▼	▼
	Configurable Sensor (NPN, PNP, push-pull)	▼	▼	▼
	Output state selection NO/NC	▼	▼	▼
Output 2	Frequency output state	▼	▼	▼
	Configurable Sensor (NPN, PNP, push-pull, external input)	▼	▼	▼
	Output state selection NO/NC	▼	▼	▼

Overview

IO-Link devices

IO-Link masters

Smart configurator



Family	YN115 - DIN rail control cabinet	YL212 - Machine mounting	SCTL55 - Handheld
Supply	Push-in or screw terminal connector	M12 L-Coded power connector	Battery operated
User interface	Integrated web server accessible via browser	Integrated web server accessible via browser	High definition 5.5" touchscreen display
Connection	8 IO-Link outputs, 2 Ethernet ports	8 IO-Link outputs, 2 Ethernet ports	M8 3-wire, M8 4-wire and M12
Communication & protocols	EtherNet/IP™ or PROFINET IO, Modbus TCP	EtherNet/IP™ or PROFINET IO, Modbus TCP	Wi-Fi, IO-Link v1.1
Material	Plastic	Plastic	Plastic
Degree of protection	IP20	IP67	IP30
Operating temperature	-40°C ... +70°C (-40°F ... +158°F)	-25°C ... +60°C (-13°F ... 140°F)	0°C ... +40°C (+32°F ... +104°F)
Approvals / Certifications	CE - cULus - FCC	CE - cULus - FCC	CE - RoHS - FCC - IC
Main feature	Simultaneous access to smart devices attached from cloud-based applications via OPC UA clients and from standard industrial machine control systems		Dedicated Apps for easy parameterization and advanced diagnostics of the connected device
	YN115CEI8RPIO	YL212CEI8M110	SCTL55
	YN115CPN8RPIO	YL212CPN8M110	

Photoelectric Time of Flight (ToF) sensors Inductive proximity sensors M5-DC - 3-wire



Family	LD30E - Stainless steel	LD30C - ABS	IBS04 - Flush mountable	ICS05 - Flush mountable
Sensing distance, Sn	1000 mm	1000 mm	1.3 mm	M5 x 38.2 mm
Range	Adj. 50 ... 1000 mm	Adj. 50 ... 1000 mm	Adj. 0.8 / 1.3 mm	Adj. 0.8 / 1.3 mm
Connection	M8-plug 4-pin or 2m PVC cable	M8-plug 4-pin or 2m PVC cable	M8-plug 3-pin or 2m PVC cable	M8-plug 3-pin or 2m PVC cable
Housing	11 x 21 x 31.4 mm	10.8 x 20 x 30 mm	Ø4 x 28.2 mm Ø4 x 38.2 mm	M5 x 28.2 mm M5 x 38.2 mm
Material	Stainless Steel AISI316L	ABS	Stainless steel AISI304	Stainless steel AISI304
Degree of protection	IP 67, IP 68, IP 69K	IP 67	IP67	IP67
Operating temperature	-25°C ... +50°C (-13°C ... +122°F)	-25°C ... +50°C (-13°F ... +122°F)	-25°C ... +80°C (-13°C ... +176°F)	-25°C ... +80°C (-13°F ... +176°F)
Approvals / Certifications	CE - cULus - ECOLAB	CE - cULus	CE - UL - CSA	CE - UL - CSA
Main feature	Infrared Laser class 1, Background Suppression; Time of Flight sensor; Time delay; Logic- and Logging functions; External input; Configurable outputs		Configurable smart sensors; Adjustable Sn, Hysteresis and Switchpoint mode; Time delay; Frequency mode; Divider function; Temperature alarms	
Cable	LD30ETB110BPA210	LD30CTB110BPA210	IBS04SF15A210	ICS05S23F15A210
Plug	LD30ETB110BPM510	LD30CTB110BPM510	IBS04SF15M510	ICS05S23F15M510

Inductive proximity sensors M8-DC - 3-wire



Family	ICS08 - Flush mountable		ICS08 - Non-flush mountable	
Sensing distance, Sn	2 mm	2 mm	4 mm	4 mm
Range	Adj. 1 / 2 mm	Adj. 1 / 2 mm	Adj. 2 / 4 mm	Adj. 2 / 4 mm
Connection	M8-plug 3-pin or 2m PVC cable	M8-plug 3-pin or 2m PVC cable	M8-plug 3-pin or 2m PVC cable	M8-plug 3-pin or 2m PVC cable
Housing	M8 x 31 mm M8 x 40 mm	M8 x 46 mm M8 x 55 mm	M8 x 34 mm M8 x 43 mm	M8 x 49 mm M8 x 58 mm
Material	Stainless steel AISI304	Stainless steel AISI304	Stainless steel AISI304	Stainless steel AISI304
Degree of protection	IP67	IP67	IP67	IP67
Operating temperature	-25°C ... +80°C (-13°F ... +176°F)	-25°C ... +80°C (-13°F ... +176°F)	-25°C ... +80°C (-13°F ... +176°F)	-25°C ... +80°C (-13°F ... +176°F)
Approvals / Certifications	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA	CE - UL - CSA
Main feature	Configurable smart sensors; Presence or Frequency Detection mode; Switchpoint mode: Single Point, Two Point or Window; Time delay: ON, OFF, One shot; Output: NPN, PNP or Push-Pull, NO or NC; Sn: configurable; Hysteresis: standard or extended; Divider function; Temperature alarm			
Cable	ICS08S30F20A210	ICS08L45F20A210	ICS08S30N40A210	ICS08L45N40A210
Plug	ICS08S30F20M510	ICS08L45F20M510	ICS08S30N40M510	ICS08L45N40M510

IO-Link devices

Inductive proximity sensors M12-DC - 3-wire



Family	ICB12 - Flush mountable		ICB12 - Non-flush mountable	
Sensing distance, Sn	4 mm		8 mm	
Range	Adj. 1.3 / 2 / 3 / 4 mm		Adj. 2.6 / 4 / 6 / 8 mm	
Connection	M12-plug or 2m PVC cable		M12-plug or 2m PVC cable	
Housing	M12 x 32 mm		M12 x 36 mm	
Cable	M12 x 50.2 mm		M12 x 54.2 mm	
Plug	M12 x 52 mm		M12 x 56 mm	
	M12 x 70.2 mm		M12 x 74.2 mm	
Material	Nickel-plated brass		Nickel-plated brass	
Degree of protection	IP67		IP67	
Operating temperature	-25°C ... +70°C (-13°F ... +158°F) -40°C ... +70 °C (-40°F ... +158°F) for plug version			
Approvals / Certifications	CE - cULus		CE - cULus	
Main features	Configurable smart sensors; Presence or Frequency Detection mode; Switchpoint mode: Single Point, Two Point or Window; Time delay: ON, OFF, One shot; Output: NPN, PNP or Push-Pull, NO or NC; Sn: configurable; Hysteresis: standard or extended; Divider function; Temperature alarm			
Cable	ICB12S30F04A2IO		ICB12L50F04A2IO	
Plug	ICB12S30F04M1IO		ICB12L50F04M1IO	
			ICB12S30N08A2IO	
			ICB12L50N08A2IO	
			ICB12S30N08M1IO	
			ICB12L50N08M1IO	

Inductive proximity sensors M18-DC - 3-wire



Family	ICB18 - Flush mountable		ICB18 - Non-flush mountable	
Sensing distance, Sn	8 mm		14 mm	
Range	Adj. 2.6 / 4 / 6 / 8 mm		Adj. 4.6 / 7 / 10.5 / 14 mm	
Connection	M12-plug or 2m PVC cable		M12-plug or 2m PVC cable	
Housing	M18 x 32 mm		M18 x 42 mm	
Cable	M18 x 54 mm		M18 x 64 mm	
Plug	M18 x 52 mm		M18 x 62 mm	
	M18 x 74 mm		M18 x 84 mm	
Material	Nickel-plated brass		Nickel-plated brass	
Degree of protection	IP67		IP67	
Operating temperature	-25°C ... +70°C (-13°F ... +158°F) -40°C ... +70 °C (-40°F ... +158°F) for plug version			
Approvals / Certifications	CE - cULus		CE - cULus	
Main features	Configurable smart sensors; Presence or Frequency Detection mode; Switchpoint mode: Single Point, Two Point or Window; Time delay: ON, OFF, One shot; Output: NPN, PNP or Push-Pull, NO or NC; Sn: configurable; Hysteresis: standard or extended; Divider function; Temperature alarm			
Cable	ICB18S30F08A2IO		ICB18L50F08A2IO	
Plug	ICB18S30F08M1IO		ICB18L50F08M1IO	
			ICB18S30N14A2IO	
			ICB18L50N14A2IO	
			ICB18S30N14M1IO	
			ICB18L50N14M1IO	

Inductive proximity sensors M30-DC - 3-wire



Family	ICB30 - Flush mountable		ICB30 - Non-flush mountable	
Sensing distance, Sn	15 mm		22 mm	
Range	Adj. 4.9 / 7.5 / 11.2 / 15 mm		Adj. 7.3 / 11 / 16.5 / 22 mm	
Connection	M12-plug or 2m PVC cable		M12-plug or 2m PVC cable	
Housing	M30 x 32 mm		M30 x 44 mm	
Cable	M30 x 55 mm		M30 x 67 mm	
Plug	M30 x 52 mm		M30 x 64 mm	
	M30 x 75 mm		M12 x 87 mm	
Material	Nickel-plated brass		Nickel-plated brass	
Degree of protection	IP67		IP67	
Operating temperature	-25°C ... +70°C (-13°F ... +158°F) -40°C ... +70 °C (-40°F ... +158°F) for plug version			
Approvals / Certifications	CE - cULus		CE - cULus	
Main features	Configurable smart sensors; Presence or Frequency Detection mode; Switchpoint mode: Single Point, Two Point or Window; Time delay: ON, OFF, One shot; Output: NPN, PNP or Push-Pull, NO or NC; Sn: configurable; Hysteresis: standard or extended; Divider function; Temperature alarm			
Cable	ICB30S30F15A2IO		ICB30L50F15A2IO	
Plug	ICB30S30F15M1IO		ICB30L50F15M1IO	
			ICB30S30N22A2IO	
			ICB30L50N22A2IO	
			ICB30S30N22M1IO	
			ICB30L50N22M1IO	

IO-Link devices

Capacitive proximity sensors M18-DC 4th Generation TRIPLESIELD™ PBT



Family	CA18 - Flush mountable		CA18 - Non-flush mountable	
Sensing distance, Sn	8 mm	8 mm	12 mm	12 mm
Range	Extended	Extended	Extended	Extended
Connection	2m PVC cable	M12-plug	2m PVC cable	M12-plug
Housing	M18 x 86 mm	M18 x 85 mm	M18 x 86 mm	M18 x 85 mm
Material	PBT	PBT	PBT	PBT
Degree of protection	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K
Operating temperature	-30°C ... +85°C (-22°F ... +185°F) +120°C (+248°F) Sensor face			
Approvals / Certifications	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB
Main features	4 th Generation TRIPLESIELD™; Configurable smart sensors; Time delay, ON, OFF, One shot; Logic: AND, OR, XOR, Gated SR-FF; External input; Outputs: NPN, PNP or Push-Pull; Diagnostic functions: Operation hours, Power cycles, Detection cycles, Temperatures, Short-circuit, Maintenance			
Cable	CA18CAF08BPA2IO		CA18CAN12BPA2IO	
Plug	CA18CAF08BPM1IO		CA18CAN12BPM1IO	

Capacitive proximity sensors M18-DC 4th Generation TRIPLESIELD™ Stainless Steel



Family	CA18 - Flush mountable		CA18 - Non-flush mountable	
Sensing distance, Sn	8 mm	8 mm	12 mm	12 mm
Range	Extended	Extended	Extended	Extended
Connection	2m PVC cable	M12-plug	2m PVC cable	M12-plug
Housing	M18 x 86 mm	M18 x 85 mm	M18 x 86 mm	M18 x 85 mm
Material	Stainless steel - AISI316L	Stainless steel - AISI316L	Stainless steel - AISI316L	Stainless steel - AISI316L
Degree of protection	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K
Operating temperature	-30°C ... +85°C (-22°F ... +185°F) +120°C (+248°F) Sensor face			
Approvals / Certifications	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB
Main features	4 th Generation TRIPLESIELD™; Configurable smart sensors; Time delay, ON, OFF, One shot; Logic: AND, OR, XOR, Gated SR-FF; External input; Outputs: NPN, PNP or Push-Pull; Diagnostic functions: Operation hours, Power cycles, Detection cycles, Temperatures, Short-circuit, Maintenance			
Cable	CA18EAF08BPA2IO		CA18EAN12BPA2IO	
Plug	CA18EAF08BPM1IO		CA18EAN12BPM1IO	

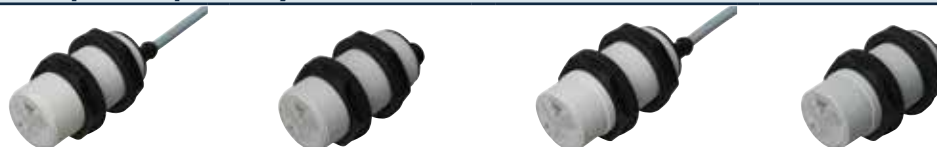
Capacitive proximity sensors M18-DC 4th Generation TRIPLESIELD™ PTFE



Family	CA18 - Flush mountable		CA18 - Non-flush mountable	
Sensing distance, Sn	8 mm	8 mm	12 mm	12 mm
Range	Extended	Extended	Extended	Extended
Connection	2m PVC cable	M12-plug	2m PVC cable	M12-plug
Housing	M18 x 86 mm	M18 x 85 mm	M18 x 86 mm	M18 x 85 mm
Material	PTFE	PTFE	PTFE	PTFE
Degree of protection	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K
Operating temperature	-30°C ... +85°C (-22°F ... +185°F) +120°C (+248°F) Sensor face			
Approvals / Certifications	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB
Main features	4 th Generation TRIPLESIELD™; Configurable smart sensors; Time delay, ON, OFF, One shot; Logic: AND, OR, XOR, Gated SR-FF; External input; Outputs: NPN, PNP or Push-Pull; Diagnostic functions: Operation hours, Power cycles, Detection cycles, Temperatures, Short-circuit, Maintenance			
Cable	CA18FAF08BPA2IO		CA18FAN12BPA2IO	
Plug	CA18FAF08BPM1IO		CA18FAN12BPM1IO	

IO-Link devices

Capacitive proximity sensors M30-DC 4th Generation TRIPLESIELD™ PBT



Family	CA30 - Flush mountable		CA30 - Non-flush mountable	
Sensing distance, Sn	16 mm	16 mm	25 mm	25 mm
Range	Extended	Extended	Extended	Extended
Connection	2m PVC cable	M12-plug	2m PVC cable	M12-plug
Housing	M30 x 81 mm	M30 x 74 mm	M30 x 81 mm	M30 x 74 mm
Material	PBT	PBT	PBT	PBT
Degree of protection	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K
Operating temperature	-30°C ... +85°C (-22°F ... +185°F) +120°C (+248°F) Sensor face			
Approvals / Certifications	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB
Main features	4 th Generation TRIPLESIELD™; Configurable smart sensors; Time delay, ON, OFF, One shot; Logic: AND, OR, XOR, Gated SR-FF; External input; Outputs: NPN, PNP or Push-Pull; Diagnostic functions: Operation hours, Power cycles, Detection cycles, Temperatures, Short-circuit, Maintenance			
Cable	CA30CAF16BPA210		CA30CAN25BPA210	
Plug	CA30CAF16BPM110		CA30CAN25BPM110	

Capacitive proximity sensors M30-DC 4th Generation TRIPLESIELD™ Stainless Steel

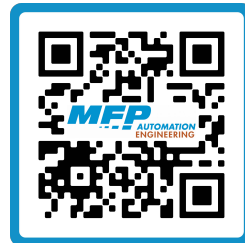


Family	CA30 - Flush mountable		CA30 - Non-flush mountable	
Sensing distance, Sn	16 mm	16 mm	25 mm	25 mm
Range	Extended	Extended	Extended	Extended
Connection	2m PVC cable	M12-plug	2m PVC cable	M12-plug
Housing	M30 x 81 mm	M30 x 74 mm	M30 x 81 mm	M30 x 74 mm
Material	Stainless steel - AISI316L	Stainless steel - AISI316L	Stainless steel - AISI316L	Stainless steel - AISI316L
Degree of protection	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K
Operating temperature	-30°C ... +85°C (-22°F ... +185°F) +120°C (+248°F) Sensor face			
Approvals / Certifications	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB
Main features	4 th Generation TRIPLESIELD™; Configurable smart sensors; Time delay, ON, OFF, One shot; Logic: AND, OR, XOR, Gated SR-FF; External input; Outputs: NPN, PNP or Push-Pull; Diagnostic functions: Operation hours, Power cycles, Detection cycles, Temperatures, Short-circuit, Maintenance			
Cable	CA30EAF16BPA210		CA30EAN25BPA210	
Plug	CA30EAF16BPM110		CA30EAN25BPM110	

Capacitive proximity sensors M30-DC 4th Generation TRIPLESIELD™ PTFE



Family	CA30 - Flush mountable		CA30 - Non-flush mountable	
Sensing distance, Sn	16 mm	16 mm	25 mm	25 mm
Range	Extended	Extended	Extended	Extended
Connection	2m PVC cable	M12-plug	2m PVC cable	M12-plug
Housing	M30 x 81 mm	M30 x 74 mm	M30 x 81 mm	M30 x 74 mm
Material	PTFE	PTFE	PTFE	PTFE
Degree of protection	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K
Operating temperature	-30°C ... +85°C (-22°F ... +185°F) +120°C (+248°F) Sensor face			
Approvals / Certifications	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB	CE - cULus - ECOLAB
Main features	4 th Generation TRIPLESIELD™; Configurable smart sensors; Time delay, ON, OFF, One shot; Logic: AND, OR, XOR, Gated SR-FF; External input; Outputs: NPN, PNP or Push-Pull; Diagnostic functions: Operation hours, Power cycles, Detection cycles, Temperatures, Short-circuit, Maintenance			
Cable	CA30FAF16BPA210		CA30FAN25BPA210	
Plug	CA30FAF16BPM110		CA30FAN25BPM110	



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