Catalogue No: **PA18CAD10PAM1SA**

PHOTO DIFFUSE-REFLECTIVE PLASTIC M18 1M DC PNP NO+NC M12 CBL

Field Switching and Sensing > Non Contact Sensors > Photoelectric Sensors > Carlo Gavazzi Photoelectric sensors > Diffuse > Series PA18 - Diffuse



Representative Photo Only
(actual product may vary based on configuration selections)

PA Series Photoelectric Sensor, Diffuse, plastic M18 housing, 10-30 V DC supply, PNP NO+NC output, 1m sensing range, IP67, IP69K rating, 5m M12 cable and mounting bracket included

- Specialised versions available with long sensing range of 2m
- The sensors feature two outputs normally open (NO) and normally closed (NC) in a single sensor
- Short-circuit, reverse polarity and overload protected
- Specialised versions available with a built-in timer
- The sensors are available with 2m cable, quick disconnect 4-pin M12 connector or a terminal connection

SPECIFICATIONS	
Product Series	PA
Component Type Field Switching & Sensing	Photoelectric Sensor
Sensing Mode	Diffuse
Light source type	LED
Colour, light source	Red (625nm)
Beam Angle / Field of View	4 ° (degrees)
Material, Lens	PMMA / Acrylic / Perspex / Plexiglas (Polymethyl methacrylate)
Material, Body / Housing	ABS material
Shape	Cylindrical - Threaded
Diameter	18 mm
Length	43.8 mm
Orientation	Straight Through
Mounting (Multiple)	Mounting Bracket (Included) Mounting Nuts (Included)
Thread Size	M18 x 1 size
Teach Mode / Sensitivity Adjustment	Single-Turn Knob / Potentiometer sensitivity
Sensing Distance, Max	1000 mm max
Voltage Supply Operating Range	18 ... 30V DC
Ue, Rated Operational Voltage, DC, min	10 V DC
Ue, Rated Operational Voltage, DC, max	30 V DC
Switching Mode	N/O or N/C Selectable
Output Type	PNP
Load Current	0.1 A
Response Time (Off → On)	1 ms
Response Time (On → Off)	1 ms
Switching/Operating Frequency	500 Hz
Connection / Termination	M12 x 1, DC Micro, 4-pin
Number of Conductors	4 qty

Length, Cable	5 m
Material, cable jacket	PVC material
Colour, Cable Jacket	Grey colour
Operating Temperature, Min	-20 °C min
Operating Temperature, Max	60 °C max
Storage Temperature, Min	-30 °C min
Storage Temperature, Max	70 °C max
IP Rating	IP67 IP69K
Shock Acceleration (Max.)	30 g
Shock Duration (Max.)	11 ms
Shock Rating	IEC 60068-2-32
Vibration Acceleration (Max.)	15 m/s^2
Vibration Displacement (Peak to Peak Max.)	1 mm
Vibration Frequency, Operational (Max.)	150 Hz
Vibration Rating	IEC 60068-2-6

REFERENCES

IECEx Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	-
User Manual:	-
Manufacturer Datasheet:	PA18CAD10NAM1SA
Manufacturer Catalogue & Product Selection:	-