

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PhotoElectric Sensors

M18 Photoelectric Sensors

Metal / Plastic Barrel

Through Beam Retroreflective / Diffused **Reflective**



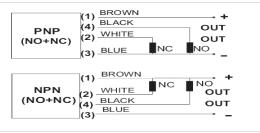
	Fixed Sensing	Fixed Sensing	Adjustable Sensing	Adjustable Sensing	Fixed Sensing		
PNP – Normally Open (light on)	PES18C32FPC	PES18C32FMC	PES18C32APC	PES18C32AMC	PES18C32FPM		
PNP – Normally Closed (light off)	PES18C33FPC	PES18C33FMC	PES18C33APC	PES18C33AMC	PES18C33FPN		
PNP – NO / NC (2 outputs)	PES18C38FPC	PES18C38FMC	-	-	PES18C38FPM		
NPN - Normally Open (light on)	PES18C22FPC	PES18C22FMC	PES18C22APC	PES18C22AMC	PES18C22FPN		
NPN – Normally Closed (light off)	PES18C23FPC	PES18C23FMC	PES18C23APC	PES18C23AMC	PES18C23FPN		
NPN – NO / NC (2 outputs)	PES18C28FPC	PES18C28FMC	-	-	PES18C28FPN		
AC Normally Open (light on)	-	-	-	-	-		
AC Normally Closed (light off)	-	-	-	-	-		
	-	-	-	-	-		
	-	-	-	-	-		
Mating cables / connectors	Mating cables / connectors						
Form	M18 Plastic	M18 Metal	M18 Plastic	M18 Metal	M18 Plastic		
Nominal Sensing Distance (Sn)	3000mm*	3000mm*	2 to 3000mm*	2 to 3000mm*	3000mm*		
Housing Material	Plastic	Metal	Plastic	Metal	Plastic		
Termination Type	2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	M12 Connecto		
Min / Max Supply Voltage	10 to 30Vdc	10 to 30Vdc	10 to 30Vdc	10 to 30Vdc	10 to 30Vdc		
Max. Load Current (Ir)	250mA	250mA	250mA	250mA	250mA		
Max ripple factor (Vr)	≤ 10%	≤ 10%	≤ 10%	≤ 10%	≤ 10%		
Voltage Drop (Ud)	≤ 2V @ 250mA	≤ 2V @ 250mA	≤ 2V @ 250mA	≤ 2V @ 250mA	≤ 2V @ 250mA		
Power Consumption (Io)			<25mA		-		
Switching Frequency (Hz)	150 Hz	150 Hz	150 Hz	150 Hz	150 Hz		
Body Material (Plastic / Metal)		ABS / Nickel Plated Brass					
Emission		Pulsed IR 880nm Yes Yes -10 to +50 C (-25 ~ 70C Storage) IP65					
Short Circuit Protection							
Reversed Polarity Protection							
Operating Temperature							
IP Rating							
Lens Material			PMMA				

^{*} with 80mm diameter reflector (25550085) – otherwise, 2000mm maximum sensing distance

3 Wire DC Wiring Diagram

(1) BROWN + PNP (4) BLACK OUT (3) BLUE - PNP (4) BLACK OUT (4) BLACK OUT (3) BLUE - PNPN (4) BLACK OUT (3) BLUE - PNPN (4) BLU

4 Wire DC Wiring Diagram



For Technical Assistance and / or Customer Service, call 800/677-5311, www.crouzet-usa.com

PhotoElectric Sensors

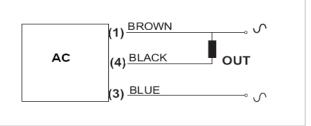




	Fixed Sensing	Adjustable Sensing	Fixed Sensing	Adjustable Sensing	Fixed Sensing	Adjustable Sensing	Adjustable Sensing			
PNP -NO	PES18C32FMM12	PES18C32AMM12	-	-	-	-	-			
PNP – NC	PES18C33FMM12	PES18C33AMM12	-	-	-	-	-			
PNP - NO/NC	PES18C38FMM12	-	-	-	-	-	-			
NPN – NO	PES18C22FMM12	PES18C22AMM12	-	-	-	-	-			
NPN – NC	PES18C23FMM12	PES18C23AMM12	-	-	-	-	-			
NPN - NO/NC	PES18C28FMM12	-	-	-	-	-	-			
AC – NO	-	-	PES18R62FPC	PES18R62APC	PES18R62FPM12	PES18R62AMM12	PES18R62AMC			
AC – NC	-	-	PES18R63FPC	PES18R63APC	PES18R63FPM12	PES18R63AMM12	PES18R63AMC			
	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-			
Mates							_			
Form	M18 Metal	M18 Metal	M18 Plastic	M18 Plastic	M18 Plastic	M18 Metal	M18 Metal			
Sn	3000mm*	2 to 3000mm*	3000mm*	2 to 3000mm*	3000mm*	2 to 3000mm*	2 to 3000mm*			
Housing	Metal	Metal	Plastic	Plastic	Plastic	Metal	Metal			
Termination	2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	2.0 Meter Cable	M12 Connector	M12 Connector	2.0 Meter Cable			
Supply Vdc	10 to 30Vdc	10 to 30Vdc	20 to 230Vac	20 to 230Vac	20 to 230Vac	20 to 230Vac	20 to 230Vac			
Max Load	250mA	250mA	250mA	250mA	250mA	250mA	250mA			
Max ripple	≤ 10%	≤ 10%	-	-						
Ud	≤ 2V @ 250mA	≤2V @ 250mA	<3V	<3V	<3V	<3V	<3V			
lo	<25mA	<25mA	<4mA	<4mA	<4mA	<4mA	<4mA			
Hz	150 Hz	150 Hz	25 Hz	25 Hz	25 Hz	25 Hz	25 Hz			
Body Material	ABS / Nickel Plated Brass									
Emission	Pulsed IR 880nm									
Short Protection	Yes	Yes	-	-	-	-	-			
Revrs Polrty	Yes	Yes	-	-	-	-	1			
Op Temp	-10 to +50 C (-25 ~ 70C Storage)									
IP Rating		IP65								
Lens Material		PMMA								

^{*} with 80mm diameter reflector (25550085) – otherwise, 2000mm maximum sensing distance

AC Wiring Diagram



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Optical Diagram

