

Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source : Infrared 880nm  Opposed Mode Sensing Distance: 3m	2m Cable 	10-30V DC	Emitter	MP-T3000D-EX9C3L2
			NPN/PNP (1ms on/off)	MP-T3000D-CX9C4U2
			Emitter	MP-T3000D-EX9C3L2-HS
			NPN/PNP (0.3ms on/off)	MP-T3000D-CX9C4U2-HS
	9m Cable 	10-30V DC	Emitter	MP-T3000D-EX9C3L9
			NPN/PNP (1ms on/off)	MP-T3000D-CX9C4U9
			Emitter	MP-T3000D-EX9C3L9-HS
			NPN/PNP (0.3ms on/off)	MP-T3000D-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	Emitter	MP-T3000D-EX9Q4LP
			NPN/PNP (1ms on/off)	MP-T3000D-CX9Q4UP
			Emitter	MP-T3000D-EX9Q4LP-HS
			NPN/PNP (0.3ms on/off)	MP-T3000D-CX9Q4UP-HS
	Euro Style 4 Pins QD 	10-30V DC	Emitter	MP-T3000D-EX9Q4LE
			NPN/PNP (1ms on/off)	MP-T3000D-CX9Q4UE
			Emitter	MP-T3000D-EX9Q4LE-HS
			NPN/PNP (0.3ms on/off)	MP-T3000D-CX9Q4UE-HS
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	Emitter	MP-T3000D-EX9P4LP
			NPN/PNP (1ms on/off)	MP-T3000D-CX9P4UP
			Emitter	MP-T3000D-EX9P4LP-HS
			NPN/PNP (0.3ms on/off)	MP-T3000D-CX9P4UP-HS
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	Emitter	MP-T3000D-EX9P4LE
			NPN/PNP (1ms on/off)	MP-T3000D-CX9P4UE
			Emitter	MP-T3000D-EX9P4LE-HS
			NPN/PNP (0.3ms on/off)	MP-T3000D-CX9P4UE-HS

Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source : Infrared 880nm  Opposed Mode Sensing Distance: 3m	2m Cable 	24~240V AC	Emitter (2-wire)	MP-T3000A-EX9C2L2
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T3000A-CX9C3U2
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T3000C-EX9C2L2
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T3000C-LX9C2U2
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T3000C-DX9C2U2
	9m Cable 	24~240V AC	Emitter (2-wire)	MP-T3000A-EX9C2L9
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T3000A-CX9C3U9
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T3000C-EX9C2L9
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T3000C-LX9C2U9
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T3000C-DX9C2U9
	Micro Style 3 Pins QD 	24~240V AC	Emitter (2-wire)	MP-T3000A-EX9Q3LM
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T3000A-CX9Q3UM
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T3000C-EX9Q3LM
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T3000C-LX9Q3UM
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T3000C-DX9Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	Emitter (2-wire)	MP-T3000A-EX9P3LM
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T3000A-CX9P3UM
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T3000C-EX9P3LM
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T3000C-LX9P3UM
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T3000C-DX9P3UM

Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm  Opposed Mode Sensing Distance: 30m	2m Cable 	10-30V DC	Emitter	MP-T030MD-EX9C3L2
			NPN/PNP (1ms on/off)	MP-T030MD-CX9C4U2
			Emitter	MP-T030MD-EX9C3L2-HS
			NPN/PNP (0.3ms on/off)	MP-T030MD-CX9C4U2-HS
	9m Cable 	10-30V DC	Emitter	MP-T030MD-EX9C3L9
			NPN/PNP (1ms on/off)	MP-T030MD-CX9C4U9
			Emitter	MP-T030MD-EX9C3L9-HS
			NPN/PNP (0.3ms on/off)	MP-T030MD-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	Emitter	MP-T030MD-EX9Q4LP
			NPN/PNP (1ms on/off)	MP-T030MD-CX9Q4UP
			Emitter	MP-T030MD-EX9Q4LP-HS
			NPN/PNP (0.3ms on/off)	MP-T030MD-CX9Q4UP-HS
	Euro Style 4 Pins QD 	10-30V DC	Emitter	MP-T030MD-EX9Q4LE
			NPN/PNP (1ms on/off)	MP-T030MD-CX9Q4UE
			Emitter	MP-T030MD-EX9Q4LE-HS
			NPN/PNP (0.3ms on/off)	MP-T030MD-CX9Q4UE-HS
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	Emitter	MP-T030MD-EX9P4LP
			NPN/PNP (1ms on/off)	MP-T030MD-CX9P4UP
			Emitter	MP-T030MD-EX9P4LP-HS
			NPN/PNP (0.3ms on/off)	MP-T030MD-CX9P4UP-HS
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	Emitter	MP-T030MD-EX9P4LE
			NPN/PNP (1ms on/off)	MP-T030MD-CX9P4UE
			Emitter	MP-T030MD-EX9P4LE-HS
			NPN/PNP (0.3ms on/off)	MP-T030MD-CX9P4UE-HS

Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source : Infrared 880nm  Opposed Mode Sensing Distance: 30m	2m Cable 	24~240V AC	Emitter (2-wire)	MP-T030MA-EX9C2L2
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T030MA-CX9C3U2
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T030MC-EX9C2L2
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T030MC-LX9C2U2
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T030MC-DX9C2U2
	9m Cable 	24~240V AC	Emitter (2-wire)	MP-T030MA-EX9C2L9
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T030MA-CX9C3U9
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T030MC-EX9C2L9
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T030MC-LX9C2U9
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T030MC-DX9C2U9
	Micro Style 3 Pins QD 	24~240V AC	Emitter (2-wire)	MP-T030MA-EX9Q3LM
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T030MA-CX9Q3UM
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T030MC-EX9Q3LM
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T030MC-LX9Q3UM
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T030MC-DX9Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	Emitter (2-wire)	MP-T030MA-EX9P3LM
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T030MA-CX9P3UM
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T030MC-EX9P3LM
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T030MC-LX9P3UM
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T030MC-DX9P3UM

Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source : red light 650nm For plastic detection  Opposed Mode Sensing Distance: 300mm	2m Cable 	10-30V DC	Emitter	MP-T0300D-EX6C3L2-PD
			NPN/PNP (1ms on/off)	MP-T0300D-CX6C4U2-PD
			Emitter	MP-T0300D-EX6C3L2-PH
			NPN/PNP (0.3ms on/off)	MP-T0300D-CX6C4U2-PH
	9m Cable 	10-30V DC	Emitter	MP-T0300D-EX6C3L9-PD
			NPN/PNP (1ms on/off)	MP-T0300D-CX6C4U9-PD
			Emitter	MP-T0300D-EX6C3L9-PH
			NPN/PNP (0.3ms on/off)	MP-T0300D-CX6C4U9-PH
	Pico Style 4 Pins QD 	10-30V DC	Emitter	MP-T0300D-EX6Q4LP-PD
			NPN/PNP (1ms on/off)	MP-T0300D-CX6Q4UP-PD
			Emitter	MP-T0300D-EX6Q4LP-PH
			NPN/PNP (0.3ms on/off)	MP-T0300D-CX6Q4UP-PH
	Euro Style 4 Pins QD 	10-30V DC	Emitter	MP-T0300D-EX6Q4LE-PD
			NPN/PNP (1ms on/off)	MP-T0300D-CX6Q4UE-PD
			Emitter	MP-T0300D-EX6Q4LE-PH
			NPN/PNP (0.3ms on/off)	MP-T0300D-CX6Q4UE-PH
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	Emitter	MP-T0300D-EX6P4LP-PD
			NPN/PNP (1ms on/off)	MP-T0300D-CX6P4UP-PD
			Emitter	MP-T0300D-EX6P4LP-PH
			NPN/PNP (0.3ms on/off)	MP-T0300D-CX6P4UP-PH
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	Emitter	MP-T0300D-EX6P4LE-PD
			NPN/PNP (1ms on/off)	MP-T0300D-CX6P4UE-PD
			Emitter	MP-T0300D-EX6P4LE-PH
			NPN/PNP (0.3ms on/off)	MP-T0300D-CX6P4UE-PH

Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source : red light 650nm For plastic detection  Opposed Mode Sensing Distance: 300mm	2m Cable 	24~240V AC	Emitter (2-wire)	MP-T0300A-EX6C2L2-PD
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T0300A-CX6C3U2-PD
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T0300C-EX6C2L2-PD
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T0300C-LX6C2U2-PD
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T0300C-DX6C2U2-PD
	9m Cable 	24~240V AC	Emitter (2-wire)	MP-T0300A-EX6C2L9-PD
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T0300A-CX6C3U9-PD
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T0300C-EX6C2L9-PD
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T0300C-LX6C2U9-PD
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T0300C-DX6C2U9-PD
	Micro Style 3 Pins QD 	24~240V AC	Emitter (2-wire)	MP-T0300A-EX6Q3LM-PD
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T0300A-CX6Q3UM-PD
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T0300C-EX6Q3LM-PD
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T0300C-LX6Q3UM-PD
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T0300C-DX6Q3UM-PD
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	Emitter (2-wire)	MP-T0300A-EX6P3LM-PD
			SPST Solid-state (2ms on/1ms off) (3-wire)	MP-T0300A-CX6P3UM-PD
		12~240V DC/ 24~240V AC	Emitter (2-wire)	MP-T0300C-EX6P3LM-PD
			SPST Solid-state Light-ON (2ms on/1ms off) (2-wire)	MP-T0300C-LX6P3UM-PD
			SPST Solid-state Dark-ON (2ms on/1ms off) (2-wire)	MP-T0300C-DX6P3UM-PD

Retroreflective Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm   	2m or 9m Cable	10-30V DC	NPN/PNP (1ms on/off)	MP-L5000D-CX6C4U2
			NPN/PNP (0.3ms on/off)	MP-L5000D-CX6C4U2-HS
			NPN/PNP (1ms on/off)	MP-L5000D-CX6C4U9
			NPN/PNP (0.3ms on/off)	MP-L5000D-CX6C4U9-HS
	Pico Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-L5000D-CX6Q4UP
			NPN/PNP (0.3ms on/off)	MP-L5000D-CX6Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-L5000D-CX6Q4UE
			NPN/PNP (0.3ms on/off)	MP-L5000D-CX6Q4UE-HS
			_____	_____
			_____	_____
Pico Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-L5000D-CX6P4UP	
		NPN/PNP (0.3ms on/off)	MP-L5000D-CX6P4UP-HS	
		_____	_____	
		_____	_____	
Euro Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-L5000D-CX6P4UE	
		NPN/PNP (0.3ms on/off)	MP-L5000D-CX6P4UE-HS	
		_____	_____	
		_____	_____	

Retroreflective Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Retro-reflective Mode Sensing Distance: 5m NON-Polarized	2m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-L5000A-CX6C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-L5000C-LX6C2U2
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-L5000C-DX6C2U2
	9m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-L5000A-CX6C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-L5000C-LX6C2U9
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-L5000C-DX6C2U9
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-L5000A-CX6Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-L5000C-LX6Q3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-L5000C-DX6Q3UM
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-L5000A-CX6P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-L5000C-LX6P3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-L5000C-DX6P3UM

Retroreflective Mode with Polarizing Filter

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm    Retro-reflective Mode with Polarizing Filter Sensing Distance:2m	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-L2000D-CX6C4U2-PF
			NPN/PNP (0.3ms on/off)	MP-L2000D-CX6C4U2-FH
			NPN/PNP (1ms on/off)	MP-L2000D-CX6C4U9-PF
			NPN/PNP (0.3ms on/off)	MP-L2000D-CX6C4U9-FH
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-L2000D-CX6Q4UP-PF
			NPN/PNP (0.3ms on/off)	MP-L2000D-CX6Q4UP-FH
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-L2000D-CX6Q4UE-PF
			NPN/PNP (0.3ms on/off)	MP-L2000D-CX6Q4UE-FH
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-L2000D-CX6P4UP-PF
			NPN/PNP (0.3ms on/off)	MP-L2000D-CX6P4UP-FH
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-L2000D-CX6P4UE-PF
			NPN/PNP (0.3ms on/off)	MP-L2000D-CX6P4UE-FH
			_____	_____
			_____	_____

Retroreflective Mode with Polarizing Filter

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Retro-reflective Mode with Polarizing Filter Sensing Distance: 2m	2m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-L2000A-CX6C3U2-PF
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-L2000C-LX6C2U2-PF
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-L2000C-DX6C2U2-PF
	9m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-L2000A-CX6C3U9-PF
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-L2000C-LX6C2U9-PF
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-L2000C-DX6C2U9-PF
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-L2000A-CX6Q3UM-PF
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-L2000C-LX6Q3UM-PF
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-L2000C-DX6Q3UM-PF
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-L2000A-CX6P3UM-PF
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-L2000C-LX6P3UM-PF
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-L2000C-DX6P3UM-PF

Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm   	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0300D-CX9C4U2
			NPN/PNP (0.3ms on/off)	MP-D0300D-CX9C4U2-HS
			NPN/PNP (1ms on/off)	MP-D0300D-CX9C4U9
			NPN/PNP (0.3ms on/off)	MP-D0300D-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0300D-CX9Q4UP
			NPN/PNP (0.3ms on/off)	MP-D0300D-CX9Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0300D-CX9Q4UE
			NPN/PNP (0.3ms on/off)	MP-D0300D-CX9Q4UE-HS
			_____	_____
			_____	_____
Diffuse Mode Sensing Distance: 300mm	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0300D-CX9P4UP
			NPN/PNP (0.3ms on/off)	MP-D0300D-CX9P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0300D-CX9P4UE
			NPN/PNP (0.3ms on/off)	MP-D0300D-CX9P4UE-HS
			_____	_____
			_____	_____

Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: Infrared 880nm   	2m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-D0300A-CX9C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-D0300C-LX9C2U2
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-D0300C-DX9C2U2
	9m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-D0300A-CX9C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-D0300C-LX9C2U9
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-D0300C-DX9C2U9
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-D0300A-CX9Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-D0300C-LX9Q3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-D0300C-DX9Q3UM
Diffuse Mode Sensing Distance: 300mm	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-D0300A-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-D0300C-LX9P3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-D0300C-DX9P3UM

Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm   	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0130D-CX9C4U2
			NPN/PNP (0.3ms on/off)	MP-D0130D-CX9C4U2-HS
			NPN/PNP (1ms on/off)	MP-D0130D-CX9C4U9
			NPN/PNP (0.3ms on/off)	MP-D0130D-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0130D-CX9Q4UP
			NPN/PNP (0.3ms on/off)	MP-D0130D-CX9Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0130D-CX9Q4UE
			NPN/PNP (0.3ms on/off)	MP-D0130D-CX9Q4UE-HS
			_____	_____
			_____	_____
Diffuse Mode Sensing Distance: 130mm	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0130D-CX9P4UP
			NPN/PNP (0.3ms on/off)	MP-D0130D-CX9P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0130D-CX9P4UE
			NPN/PNP (0.3ms on/off)	MP-D0130D-CX9P4UE-HS
			_____	_____
			_____	_____

Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: Infrared 880nm   	2m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-D0130A-CX9C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-D0130C-LX9C2U2
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-D0130C-DX9C2U2
	9m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-D0130A-CX9C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-D0130C-LX9C2U9
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-D0130C-DX9C2U9
Diffuse Mode Sensing Distance:130mm 	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-D0130A-CX9Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-D0130C-LX9Q3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-D0130C-DX9Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-D0130A-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-D0130C-LX9P3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-D0130C-DX9P3UM

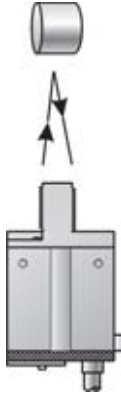
Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm   	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0380D-CX9C4U2
			NPN/PNP (0.3ms on/off)	MP-D0380D-CX9C4U2-HS
			NPN/PNP (1ms on/off)	MP-D0380D-CX9C4U9
			NPN/PNP (0.3ms on/off)	MP-D0380D-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0380D-CX9Q4UP
			NPN/PNP (0.3ms on/off)	MP-D0380D-CX9Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0380D-CX9Q4UE
			NPN/PNP (0.3ms on/off)	MP-D0380D-CX9Q4UE-HS
			_____	_____
			_____	_____
Diffuse Mode Sensing Distance: 380mm	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0380D-CX9P4UP
			NPN/PNP (0.3ms on/off)	MP-D0380D-CX9P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-D0380D-CX9P4UE
			NPN/PNP (0.3ms on/off)	MP-D0380D-CX9P4UE-HS
			_____	_____
			_____	_____

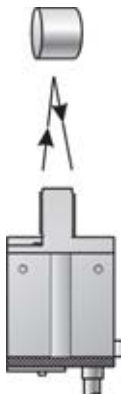
Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: Infrared 880nm    Diffuse Mode Sensing Distance: 380mm	2m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-D0380A-CX9C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-D0380C-LX9C2U2
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-D0380C-DX9C2U2
	9m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-D0380A-CX9C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-D0380C-LX9C2U9
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-D0380C-DX9C2U9
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-D0380A-CX9Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-D0380C-LX9Q3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-D0380C-DX9Q3UM
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-D0380A-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-D0380C-LX9P3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-D0380C-DX9P3UM

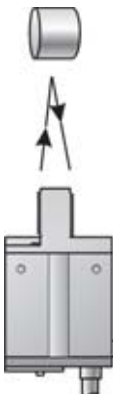
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm 	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX9C4U2
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX9C4U2-HS
			NPN/PNP (1ms on/off)	MP-C0016D-CX9C4U9
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX9Q4UP
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX9Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX9Q4UE
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX9Q4UE-HS
			_____	_____
			_____	_____
Convergent Mode Sensing Distance: 16mm	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX9P4UP
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX9P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX9P4UE
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX9P4UE-HS
			_____	_____
			_____	_____

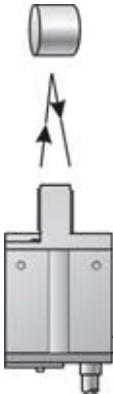
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: Infrared 880nm 	2m Cable 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX9C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX9C2U2
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX9C2U2
	9m Cable 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX9C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX9C2U9
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX9C2U9
	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX9Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX9Q3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX9Q3UM
Convergent Mode Sensing Distance: 16mm	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX9P3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX9P3UM

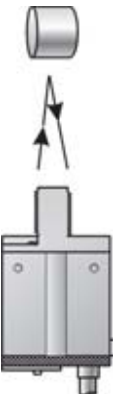
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: green light 525nm 	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX5C4U2
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX5C4U2-HS
			NPN/PNP (1ms on/off)	MP-C0016D-CX5C4U9
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX5C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX5Q4UP
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX5Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX5Q4UE
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX5Q4UE-HS
			_____	_____
			_____	_____
Convergent Mode Sensing Distance: 16mm Spot size at focus: 1.0mm	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX5P4UP
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX5P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX5P4UE
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX5P4UE-HS
			_____	_____
			_____	_____

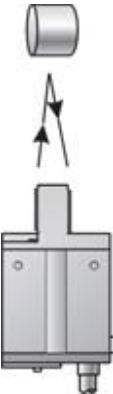
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: green light 525nm  Convergent Mode Sensing Distance: 16mm Spot size at focus: 1.0mm	2m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX5C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX5C2U2
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX5C2U2
	9m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX5C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX5C2U9
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX5C2U9
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX5Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX5Q3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX5Q3UM
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX5P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX5P3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX5P3UM

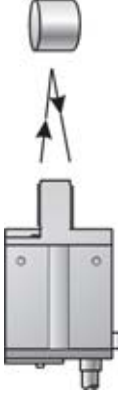
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Convergent Mode Sensing Distance: 16mm Spot size at focus: 1.3mm	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX6C4U2
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX6C4U2-HS
			NPN/PNP (1ms on/off)	MP-C0016D-CX6C4U9
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX6C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX6Q4UP
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX6Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX6Q4UE
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX6Q4UE-HS
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX6P4UP
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX6P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0016D-CX6P4UE
			NPN/PNP (0.3ms on/off)	MP-C0016D-CX6P4UE-HS
			_____	_____
			_____	_____

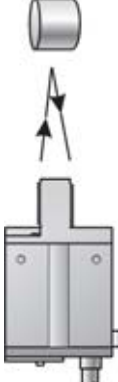
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Convergent Mode Sensing Distance: 16mm Spot size at focus: 1.3mm	2m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX6C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX6C2U2
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX6C2U2
	9m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX6C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX6C2U9
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX6C2U9
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX6Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX6Q3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX6Q3UM
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0016A-CX6P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0016C-LX6P3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0016C-DX6P3UM

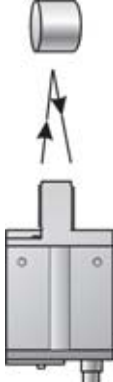
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm  Convergent Mode Sensing Distance: 43mm	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX9C4U2
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX9C4U2-HS
			NPN/PNP (1ms on/off)	MP-C0043D-CX9C4U9
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX9Q4UP
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX9Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX9Q4UE
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX9Q4UE-HS
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX9P4UP
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX9P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX9P4UE
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX9P4UE-HS
			_____	_____
			_____	_____

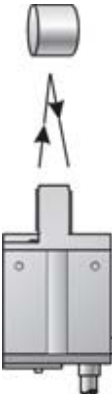
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: Infrared 880nm  Convergent Mode Sensing Distance: 43mm	2m Cable 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0043A-CX9C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0043C-LX9C2U2
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0043C-DX9C2U2
	9m Cable 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0043A-CX9C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0043C-LX9C2U9
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0043C-DX9C2U9
	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0043A-CX9Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0043C-LX9Q3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0043C-DX9Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0043A-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0043C-LX9P3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0043C-DX9P3UM

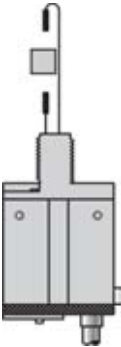
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm 	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX6C4U2
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX6C4U2-HS
			NPN/PNP (1ms on/off)	MP-C0043D-CX6C4U9
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX6C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX6Q4UP
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX6Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX6Q4UE
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX6Q4UE-HS
			_____	_____
			_____	_____
Convergent Mode Sensing Distance: 43mm Spot size at focus: 1.3mm	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX6P4UP
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX6P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-C0043D-CX6P4UE
			NPN/PNP (0.3ms on/off)	MP-C0043D-CX6P4UE-HS
			_____	_____
			_____	_____

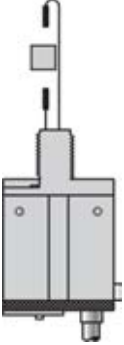
Convergent Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Convergent Mode Sensing Distance: 43mm Spot size at focus: 1.3mm	2m Cable 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0043A-CX6C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0043C-LX6C2U2
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0043C-DX6C2U2
	9m Cable 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0043A-CX6C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0043C-LX6C2U9
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0043C-DX6C2U9
	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0043A-CX6Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0043C-LX6Q3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0043C-DX6Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-C0043A-CX6P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-C0043C-LX6P3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-C0043C-DX6P3UM

Glass Fiber Optic with Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm  Glass Fiber Optic Opposed Mode	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX9C4U2
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX9C4U2-HS
			NPN/PNP (1ms on/off)	MP-TGFD-CX9C4U9
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX9Q4UP
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX9Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX9Q4UE
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX9Q4UE-HS
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX9P4UP
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX9P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX9P4UE
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX9P4UE-HS
			_____	_____
			_____	_____

Glass Fiber Optic with Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: Infrared 880nm  Glass Fiber Optic Opposed Mode	2m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX9C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX9C2U2
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX9C2U2
	9m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX9C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX9C2U9
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX9C2U9
	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX9Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX9Q3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX9Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX9P3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX9P3UM

Glass Fiber Optic with Retroreflective Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm  Glass Fiber Optic Retro-reflective Mode	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX9C4U2
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX9C4U2-HS
			NPN/PNP (1ms on/off)	MP-LGFD-CX9C4U9
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX9C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX9Q4UP
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX9Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX9Q4UE
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX9Q4UE-HS
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX9P4UP
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX9P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX9P4UE
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX9P4UE-HS
			_____	_____
			_____	_____

Glass Fiber Optic with Retroreflective Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm  Glass Fiber Optic Retro-reflective Mode	2m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-LGFA-CX9C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-LGFC-LX9C2U2
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-LGFC-DX9C2U2
	9m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-LGFA-CX9C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-LGFC-LX9C2U9
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-LGFC-DX9C2U9
	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-LGFA-CX9Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-LGFC-LX9Q3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-LGFC-DX9Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-LGFA-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-LGFC-LX9P3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-LGFC-DX9P3UM

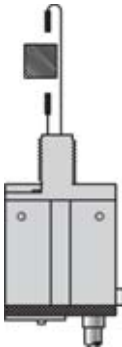
Glass Fiber Optic with Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm  Glass Fiber Optic Diffuse Mode	2m or 9m Cable	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX9C4U2
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX9C4U2-HS
			NPN/PNP (1ms on/off)	MP-DGFD-CX9C4U9
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX9C4U9-HS
	Pico Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX9Q4UP
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX9Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX9Q4UE
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX9Q4UE-HS
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX9P4UP
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX9P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX9P4UE
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX9P4UE-HS
			_____	_____
			_____	_____

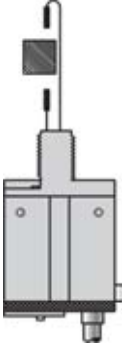
Glass Fiber Optic with Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: infrared 880nm  Glass Fiber Optic Diffuse Mode	2m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX9C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX9C2U2
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX9C2U2
	9m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX9C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX9C2U9
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX9C2U9
	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX9Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX9Q3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX9Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX9P3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX9P3UM

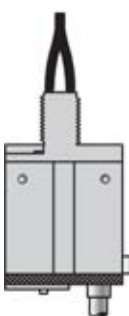
Glass Fiber Optic with Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Glass Fiber Optic Opposed Mode	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6C4U2
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6C4U2-HS
			NPN/PNP (1ms on/off)	MP-TGFD-CX6C4U9
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6C4U9-HS
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6Q4UP
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6Q4UE
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6Q4UE-HS
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6P4UP
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6P4UE
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6P4UE-HS
			_____	_____
			_____	_____

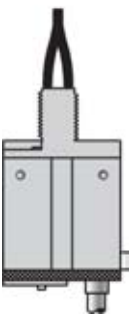
Glass Fiber Optic with Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Glass Fiber Optic Opposed Mode	2m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX6C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX6C2U2
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX6C2U2
	9m Cable 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX6C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX6C2U9
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX6C2U9
	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX6Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX6Q3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX6Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX6P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX6P3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX6P3UM

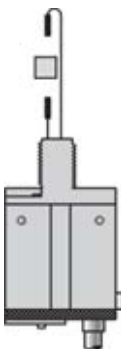
Glass Fiber Optic with Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm    Glass Fiber Optic Diffuse Mode	2m or 9m Cable	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6C4U2
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6C4U2-HS
			NPN/PNP (1ms on/off)	MP-DGFD-CX6C4U9
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6C4U9-HS
	Pico Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6Q4UP
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6Q4UE
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6Q4UE-HS
			_____	_____
			_____	_____
Pico Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6P4UP	
		NPN/PNP (0.3ms on/off)	MP-DGFD-CX6P4UP-HS	
		_____	_____	
		_____	_____	
Euro Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6P4UE	
		NPN/PNP (0.3ms on/off)	MP-DGFD-CX6P4UE-HS	
		_____	_____	
		_____	_____	

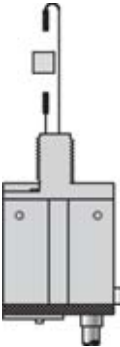
Glass Fiber Optic with Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm   Glass Fiber Optic Diffuse Mode 	2m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX6C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX6C2U2
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX6C2U2
	9m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX6C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX6C2U9
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX6C2U9
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX6Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX6Q3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX6Q3UM
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX6P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX6P3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX6P3UM

Plastic Fiber Optic with Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Plastic Fiber Optic Opposed Mode	2m or 9m Cable	10-30V DC	NPN/PNP (1ms on/off)	MP-TPFD-CX6C4U2
			NPN/PNP (0.3ms on/off)	MP-TPFD-CX6C4U2-HS
			NPN/PNP (1ms on/off)	MP-TPFD-CX6C4U9
			NPN/PNP (0.3ms on/off)	MP-TPFD-CX6C4U9-HS
	Pico Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-TPFD-CX6Q4UP
			NPN/PNP (0.3ms on/off)	MP-TPFD-CX6Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-TPFD-CX6Q4UE
			NPN/PNP (0.3ms on/off)	MP-TPFD-CX6Q4UE-HS
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-TPFD-CX6P4UP
			NPN/PNP (0.3ms on/off)	MP-TPFD-CX6P4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-TPFD-CX6P4UE
			NPN/PNP (0.3ms on/off)	MP-TPFD-CX6P4UE-HS
			_____	_____
			_____	_____

Plastic Fiber Optic with Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Plastic Fiber Optic Opposed Mode	2m Cable 	24~240V AC	SPST Solid-state (3-wire) (4ms on/off)	MP-TPFA-CX6C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (2-wire) (4ms on/off)	MP-TPFC-LX6C2U2
			SPST Solid-state Dark-ON (2-wire) (4ms on/off)	MP-TPFC-DX6C2U2
	9m Cable 	24~240V AC	SPST Solid-state (3-wire) (4ms on/off)	MP-TPFA-CX6C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (2-wire) (4ms on/off)	MP-TPFC-LX6C2U9
			SPST Solid-state Dark-ON (2-wire) (4ms on/off)	MP-TPFC-DX6C2U9
	Micro Style 3 Pins QD 	24~240V AC	SPST Solid-state (3-wire) (4ms on/off)	MP-TPFA-CX6Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (2-wire) (4ms on/off)	MP-TPFC-LX6Q3UM
			SPST Solid-state Dark-ON (2-wire) (4ms on/off)	MP-TPFC-DX6Q3UM
	Micro Style 3 Pins 6" Pigtail 	24~240V AC	SPST Solid-state (3-wire) (4ms on/off)	MP-TPFA-CX6P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (2-wire) (4ms on/off)	MP-TPFC-LX6P3UM
			SPST Solid-state Dark-ON (2-wire) (4ms on/off)	MP-TPFC-DX6P3UM

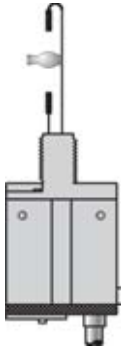
Plastic Fiber Optic with Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Plastic Fiber Optic Diffuse Mode	2m or 9m Cable	10-30V DC	NPN/PNP (1ms on/off)	MP-DPFD-CX6C4U2
			NPN/PNP (0.3ms on/off)	MP-DPFD-CX6C4U2-HS
			NPN/PNP (1ms on/off)	MP-DPFD-CX6C4U9
			NPN/PNP (0.3ms on/off)	MP-DPFD-CX6C4U9-HS
	Pico Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-DPFD-CX6Q4UP
			NPN/PNP (0.3ms on/off)	MP-DPFD-CX6Q4UP-HS
			_____	_____
			_____	_____
	Euro Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-DPFD-CX6Q4UE
			NPN/PNP (0.3ms on/off)	MP-DPFD-CX6Q4UE-HS
			_____	_____
			_____	_____
Pico Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-DPFD-CX6P4UP	
		NPN/PNP (0.3ms on/off)	MP-DPFD-CX6P4UP-HS	
		_____	_____	
		_____	_____	
Euro Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-DPFD-CX6P4UE	
		NPN/PNP (0.3ms on/off)	MP-DPFD-CX6P4UE-HS	
		_____	_____	
		_____	_____	

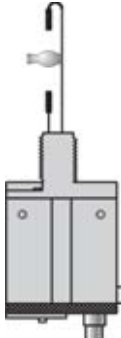
Plastic Fiber Optic with Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Plastic Fiber Optic Diffuse Mode	2m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-DPFA-CX6C3U2
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-DPFC-LX6C2U2
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-DPFC-DX6C2U2
	9m Cable	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-DPFA-CX6C3U9
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-DPFC-LX6C2U9
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-DPFC-DX6C2U9
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-DPFA-CX6Q3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-DPFC-LX6Q3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-DPFC-DX6Q3UM
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (4ms on/off) (3-wire)	MP-DPFA-CX6P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (4ms on/off) (2-wire)	MP-DPFC-LX6P3UM
			SPST Solid-state Dark-ON (4ms on/off) (2-wire)	MP-DPFC-DX6P3UM

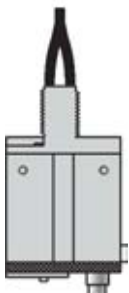
Glass Fiber Optic with Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Glass Fiber Optic (Special mode) Opposed Mode (Translucent material sensors)	2m or 9m Cable	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6C4U2-L
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6C4U2-LH
			NPN/PNP (1ms on/off)	MP-TGFD-CX6C4U9-L
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6C4U9-LH
	Pico Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6Q4UP-L
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6Q4UP-LH
			_____	_____
			_____	_____
	Euro Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6Q4UE-L
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6Q4UE-LH
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6P4UP-L
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6P4UP-LH
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-TGFD-CX6P4UE-L
			NPN/PNP (0.3ms on/off)	MP-TGFD-CX6P4UE-LH
			_____	_____
			_____	_____

Glass Fiber Optic with Opposed Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Glass Fiber Optic (Special mode) Opposed Mode (Translucent material sensors)	2m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX6C3U2-L
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX6C2U2-L
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX6C2U2-L
	9m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX6C3U9-L
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX6C2U9-L
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX6C2U9-L
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX6Q3UM-L
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX6Q3UM-L
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX6Q3UM-L
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-TGFA-CX6P3UM-L
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-TGFC-LX6P3UM-L
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-TGFC-DX6P3UM-L

Glass Fiber Optic with Retroreflective Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm   Glass Fiber Optic (special mode) Retro-reflective Mode (Narrow Light)	2m or 9m Cable	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX6C4U2-N
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX6C4U2-NH
			NPN/PNP (1ms on/off)	MP-LGFD-CX6C4U9-N
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX6C4U9-NH
	Pico Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX6Q4UP-N
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX6Q4UP-NH
			_____	_____
			_____	_____
	Euro Style 4 Pins QD	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX6Q4UE-N
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX6Q4UE-NH
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX6P4UP-N
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX6P4UP-NH
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail	10-30V DC	NPN/PNP (1ms on/off)	MP-LGFD-CX6P4UE-N
			NPN/PNP (0.3ms on/off)	MP-LGFD-CX6P4UE-NH
			_____	_____
			_____	_____

Glass Fiber Optic with Retroreflective Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Glass Fiber Optic (special mode) Retro-reflective Mode (Narrow Light)	2m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-LGFA-CX6C3U2-N
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-LGFC-LX6C2U2-N
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-LGFC-DX6C2U2-N
	9m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-LGFA-CX6C3U9-N
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-LGFC-LX6C2U9-N
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-LGFC-DX6C2U9-N
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-LGFA-CX6Q3UM-N
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-LGFC-LX6Q3UM-N
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-LGFC-DX6Q3UM-N
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-LGFA-CX9P3UM
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-LGFC-LX9P3UM
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-LGFC-DX9P3UM

Glass Fiber Optic with Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Glass Fiber Optic(special mode) Diffuse Mode (Mark Sensor)	2m or 9m Cable 	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6C4U2-K
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6C4U9-K
			NPN/PNP (1ms on/off)	MP-DGFD-CX6C4U2-KH
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6C4U9-KH
	Pico Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6Q4UP-K
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6Q4UP-KH
			_____	_____
			_____	_____
	Euro Style 4 Pins QD 	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6Q4UE-K
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6Q4UE-KH
			_____	_____
			_____	_____
	Pico Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6P4UP-K
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6P4UP-KH
			_____	_____
			_____	_____
	Euro Style 4 Pins 6" Pigtail 	10-30V DC	NPN/PNP (1ms on/off)	MP-DGFD-CX6P4UE-K
			NPN/PNP (0.3ms on/off)	MP-DGFD-CX6P4UE-KH
			_____	_____
			_____	_____

Glass Fiber Optic with Diffuse Mode

Sensing Mode	Connection	Supply Voltage	Output Mode	Part Number
Light Source: red light 650nm  Glass Fiber Optic(special mode) Diffuse Mode (Mark Sensor)	2m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX6C3U2-K
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX6C2U2-K
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX6C2U2-K
	9m Cable	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX6C3U9-K
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX6C2U9-K
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX6C2U9-K
	Micro Style 3 Pins QD	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX6Q3UM-K
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX6Q3UM-K
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX6Q3UM-K
	Micro Style 3 Pins 6" Pigtail	24~240V AC	SPST Solid-state (8ms on/off) (3-wire)	MP-DGFA-CX6P3UM-K
			_____	_____
		12~240V DC/ 24~240V AC	SPST Solid-state Light-ON (8ms on/off) (2-wire)	MP-DGFC-LX6P3UM-K
			SPST Solid-state Dark-ON (8ms on/off) (2-wire)	MP-DGFC-DX6P3UM-K

Specifications (DC)

Item \ Sensing Mode	DC			
	Opposed Mode		Retroreflective Mode	Diffuse Mode
	E	R		
Sensing Range	See each mode			
Hysteresis	—			
Operating Voltage	10~30V			
Ripple	<±10%			
Voltage Drop	—	<2.0V at 150mA		
Max Load Current	—	150mA		
No Load Current	<25mA			
Min. Load Current	—	5mA		
Leakage Current	—	<1mA		
Output Configuration	Bipolar: One current sourcing (PNP) and one current sinking (NPN) open-collector transistor			
Indicators	Red indicator LED on rear or sensor is“on” when the load is energized			
Adjustments	LIGHT/DARK OPERATE select switch, and 15-turn slotted brass screw GAIN (sensitivity) adjustment potentiometer(clutched at both ends of travel). Both controls are located on rear panel of sensor and protected by a gasketed, clear acrylic cover.			
Transient Protection	Yes			
Reverse Polarity Protection	Yes			
Short Circuit Protection	Yes			
Over Load Current Protection	>180mA			
Output Response Time	1 ms or 0.3ms (High-speed Type)			
Construction	Reinforced thermoplastic polyester housing, totally encapsulated, o-ring sealing, acrylic lenses, and stainless screws.			
Environmental Rating	IP67			
Operating Conditions	Temperature: -20°to +70°C, Maximum relative humidity: 90% at 50°C			
EMC	IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact)			
Voltage Withstand Ability	IEC 60947-5-2, Part 8.3.3.4 or 500VDC for one min, between all supply terminals connected together and enclosure			
Insulation Resistance	>20MΩ , with 500V DC megger between all supply terminals connected together and enclosure			
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min			
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each			
Mounting Bracket	MINI-A1,A2,A3 (see page V-01)			
Cable	2m or 9m 5.8 ϕ 4X0.5 (Emitter :3X0.5) PVC.			
Pigtail Type	See page Q-01 for cable and connect at pigtail			

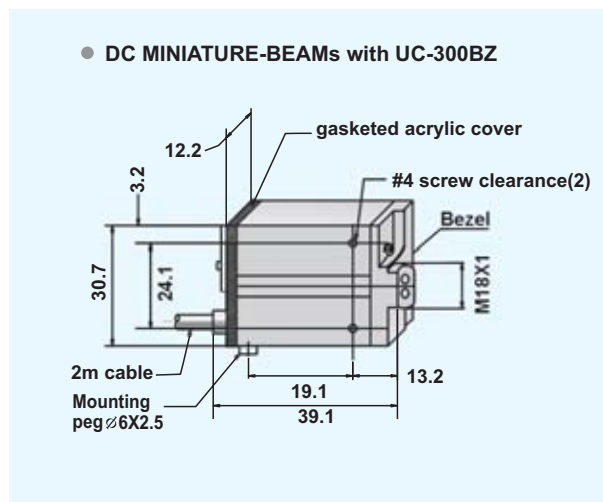
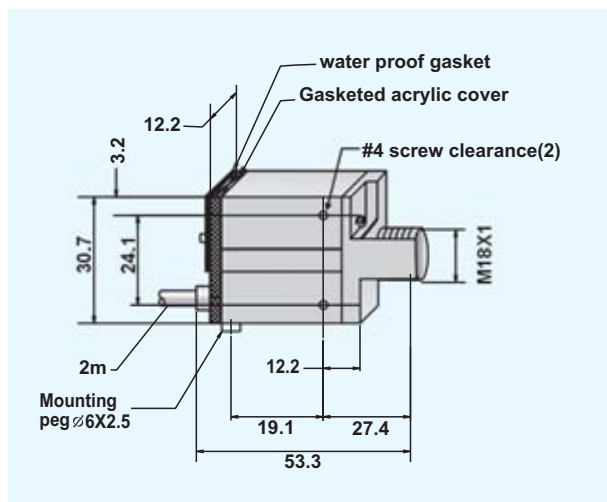
Specifications (AC)

Sensing Mode Item	AC			
	Opposed Mode		Retroreflective Mode	Diffuse Mode
	E	R		
Sensing Range	See each mode			
Hysteresis	—			<20% SD
Operating Voltage	24~240V AC (50/60HZ)			
Output Configuration	SPST MOSFET solid-state relay with either normally closed or normally open contact (light/dark operate selectable; 3-wire hookup)			
Voltage Drop	—	<10V at 200mA		
Max Load Current	—	≤ 200mA		
No Load Current	25mA	≤ 1.7mA		
Min. Load Current	—	≤ 5mA		
Leakage Current	—	≤ 1.7mA		
Transient Protection	Yes			
Short Circuit Protection	—	Yes		
Over Load Current Protection	—	≥220mA		
Response Time	2ms	8ms	4ms	8ms
Construction	Reinforced thermoplastic polyester housing, totally encapsulated, o-ring sealing, acrylic lenses, and stainless screws.			
Adjustments	LIGHT/DARK OPERATE select switch, and 15-turn slotted brass screw GAIN (sensitivity) adjustment potentiometers (clutched at both ends of travel). Both controls are located on rear panel of sensor and protected, clear acrylic cover.			
Indicators	Red indicator LED on rear or sensor is “on ”when the load is energized			
Environmental Rating	IP67			
Operating Temperature	Temperature: -20°to +70°C, Maximum relative humidity: 90% at 50°C			
EMC	IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact)			
Voltage Withstand Ability	IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure			
Insulation Resistance	>20MΩ, with 1500V AC megger between all supply terminals connected together and enclosure			
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min			
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each			
Cable	2m or 9m 5.8ϕ 4X0.5 (Emitter :3X0.5) PVC.			
Pigtail Type	See page Q-01 for cable and connect at pigtail			

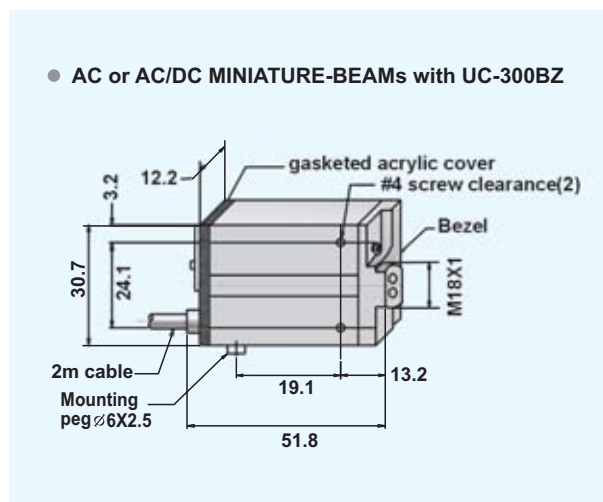
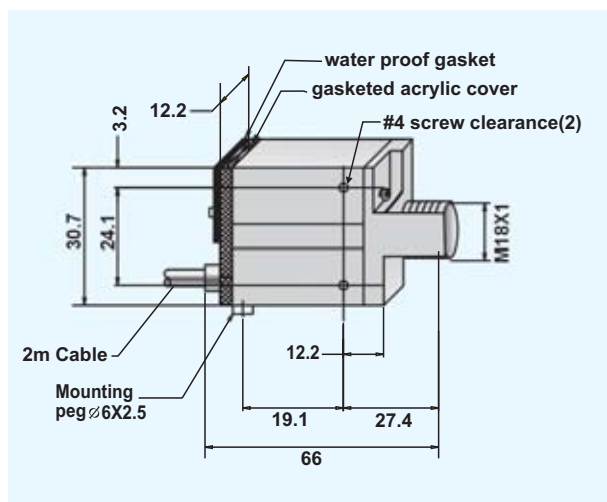
Specifications (AC/DC)

Sensing Mode Item	AC/DC			
	Opposed Mode		Retroreflective Mode	Diffuse Mode
	E	R		
Sensing Range	See each mode			
Hysteresis	—			<20%SD
Operating Voltage	12~240V DC/ 24~240V AC			
Output Configuration	SPST SCR solid-state relay with either normally closed or normally open contact (light/dark operate selectable; 2-wire hookup)			
Voltage Drop	—	<10V at 200mA		
Max Load Current	—	≤ 200mA		
No Load Current	25mA	≤ 1.7mA		
Min. Load Current	—	≤ 5mA		
Leakage Current	—	≤ 1.7mA		
Transient protection	yes			
Short Circuit Protection	—	yes		
Over Load Current Protection	—	≥220mA		
Response Time	2ms	8ms	4ms	8ms
Construction	Light/Dark operate selectable, 2-wire hookup			
Adjustments	LIGHT/DARK OPERATE select switch, and 15-turn slotted brass screw GAIN (sensitivity) adjustment potentiometers (clutched at both ends of travel). Both controls are located on rear panel of sensor and protected, clear acrylic cover.			
Indicators	Red indicator LED on rear or sensor is “on” when the load is energized			
Environmental Rating	IP67			
Operating Temperature	Temperature: -20°to +70°C, Maximum relative humidity: 90% at 50°C			
EMC	IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact)			
Voltage Withstand Ability	IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure			
Insulation Resistance	>20MΩ, with 1500V AC megger between all supply terminals connected together and enclosure			
Vibration Resistance	IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min			
Shock Resistance	IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each			
Cable	2m or 9m 5.8ϕ 4X0.5 (Emitter :3X0.5) PVC.			
Pigtail Type	See page Q-01 for cable and connect at pigtail			

DC SENSOR

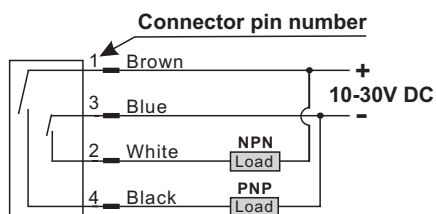


AC or AC/DC SENSOR

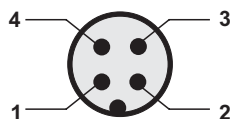


Connection Diagrams

DC NPN/PNP



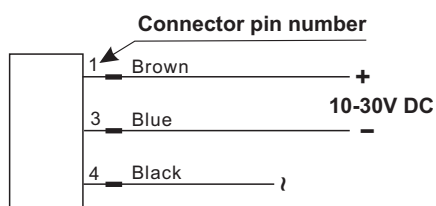
M12 Euro-style



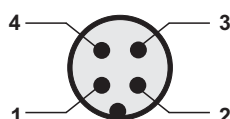
M8 Pico-style



DC Emitter



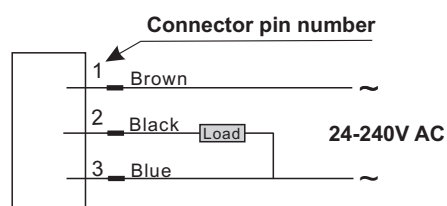
M12 Euro-style



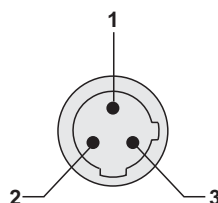
M8 Pico-style



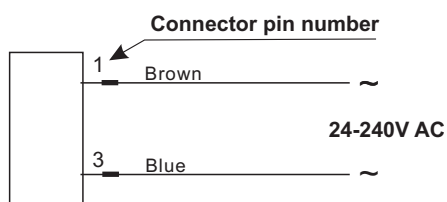
AC Receiver



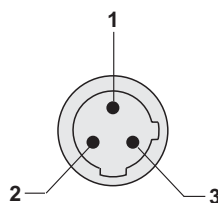
M12 Micro-style



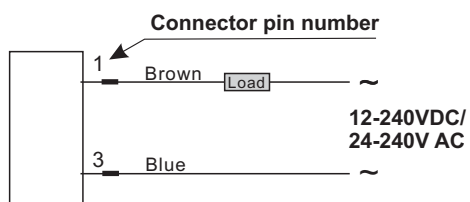
AC Emitter



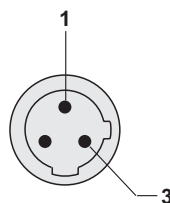
M12 Micro-style



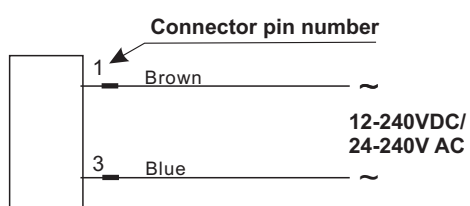
AC/DC Receiver



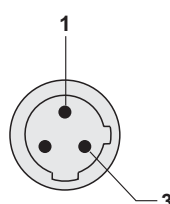
M12 Micro-style



AC/DC Emitter



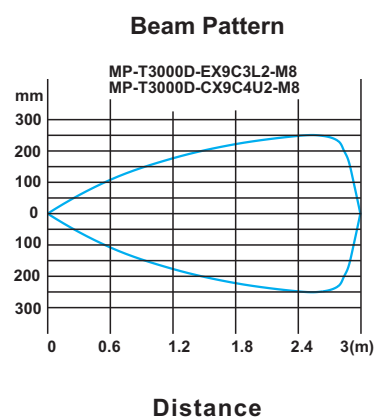
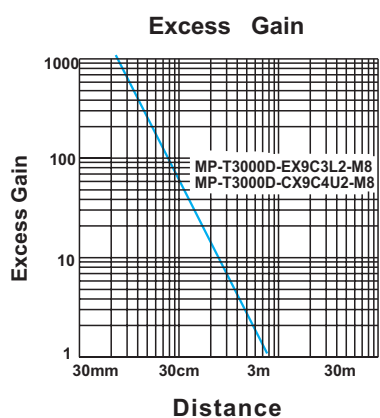
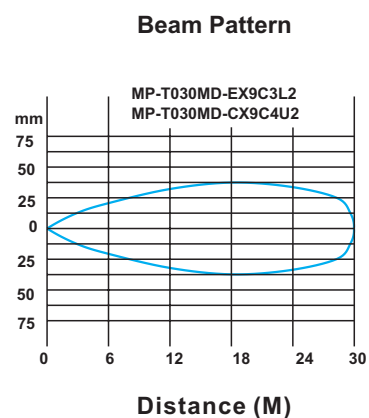
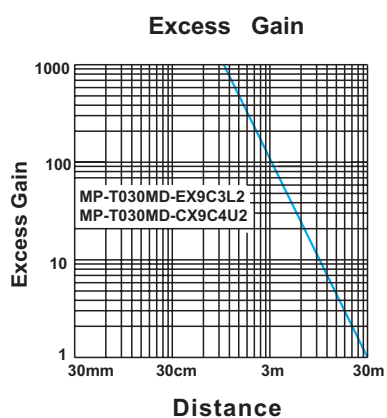
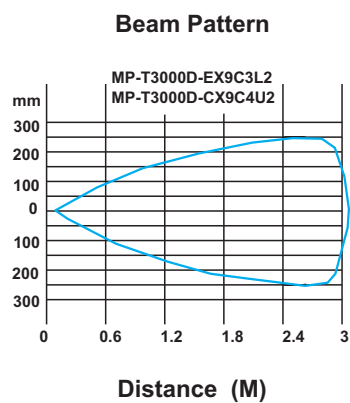
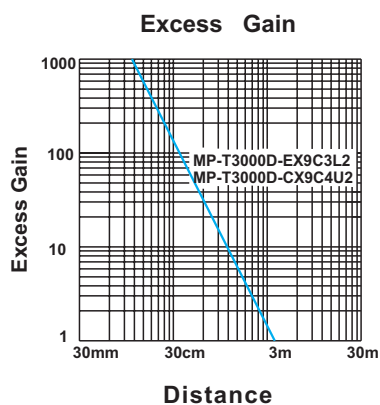
M12 Micro-style



Sensing Characteristics (Typical)

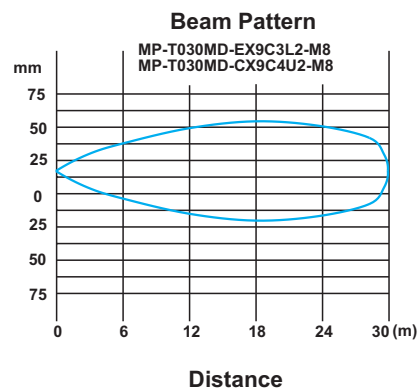
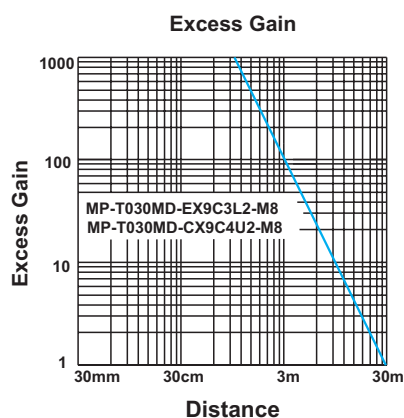
Opposed Mode

B: MP SENSORS

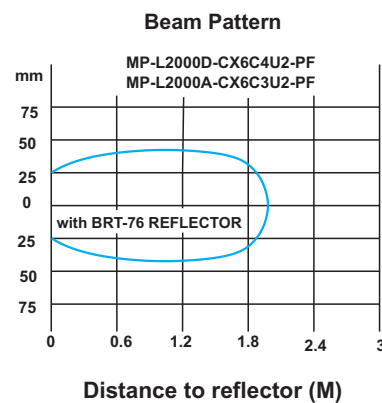
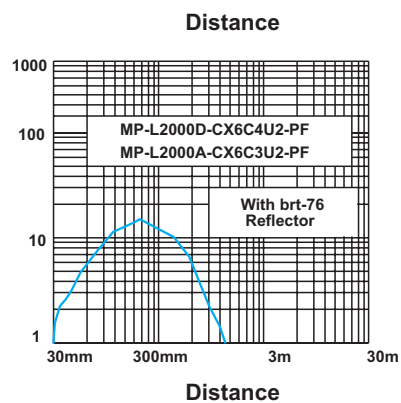
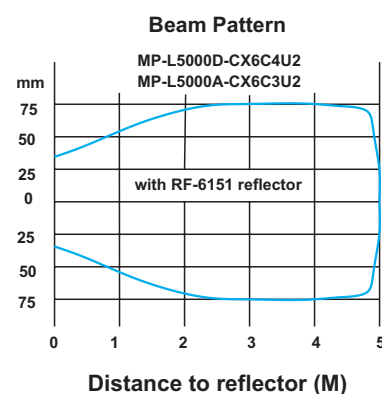
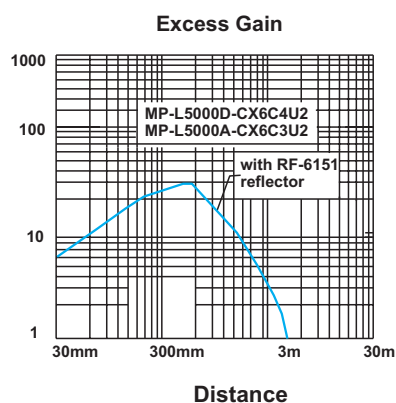


Sensing Characteristics (Typical)

Opposed Mode



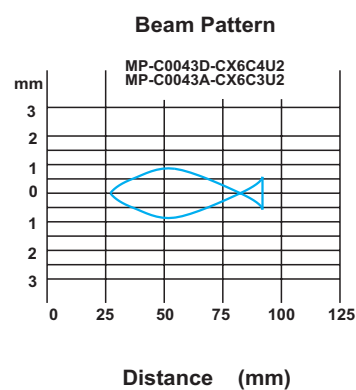
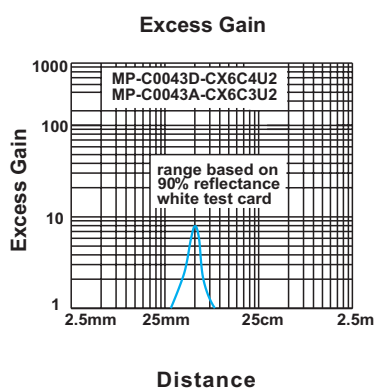
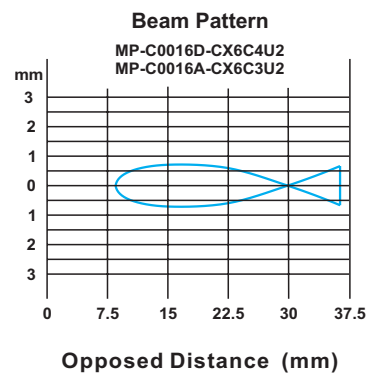
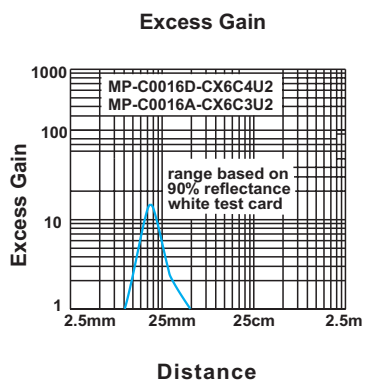
Retro-reflective Mode



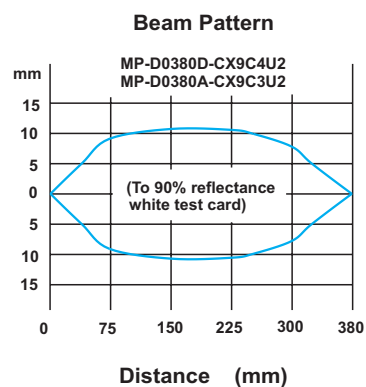
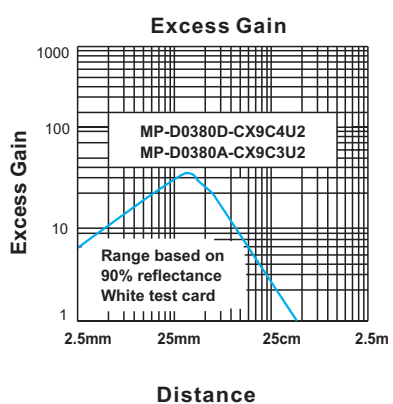
Sensing Characteristics (Typical)

Convergent Mode

B: MP SENSORS

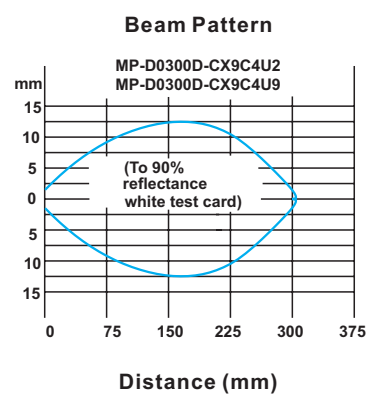
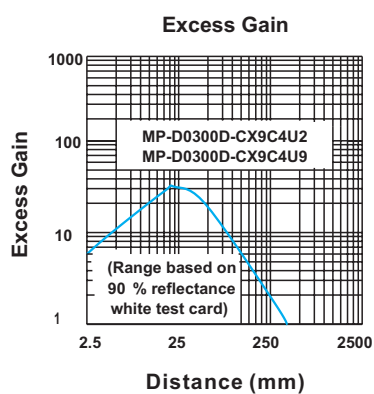
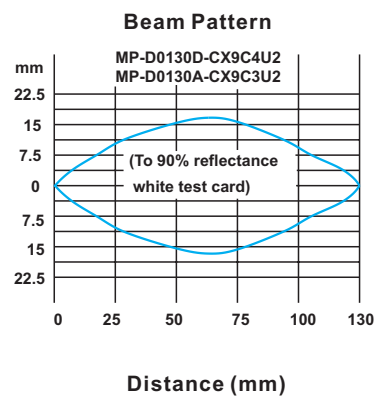
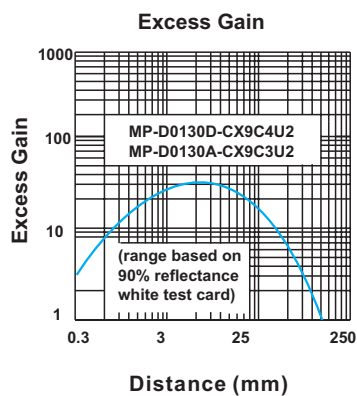


Diffused Mode



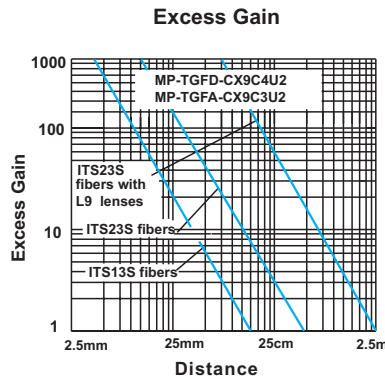
Sensing Characteristics (Typical)

Diffuse Mode



Sensing Characteristics (Typical)

Fiber Optic Mode



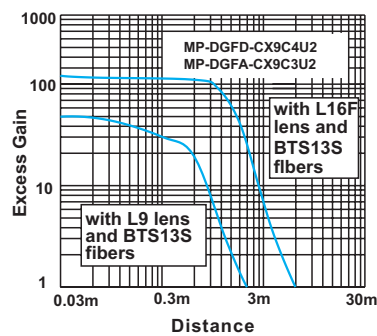
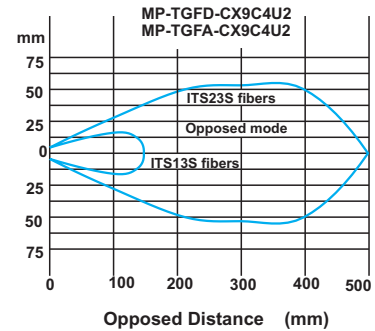
MP-TGFD-CX9C4U2

VOLTAGE: 10~30V DC
RANGE: see E. G. curves
RESPONSE: 1ms
BEAM: infrared 880nm
FIBER: glass

MP-TGFA-CX9C4U2

VOLTAGE: 24~240V AC
RANGE: see E. G. curves
RESPONSE: 4ms
BEAM: infrared 880nm
FIBER: glass

Beam Pattern

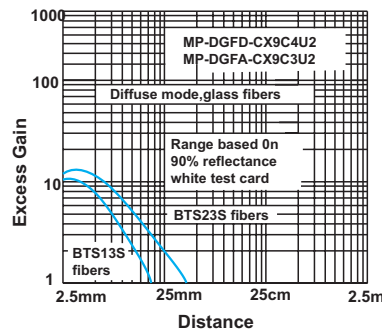
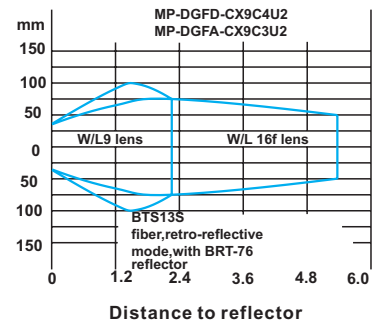


MP-DGFD-CX9C4U2

VOLTAGE: 10~30V DC
RANGE: see E. G. curves
RESPONSE: 1ms
BEAM: infrared 880nm
FIBER: glass

MP-DGFA-CX9C4U2

VOLTAGE: 24~240V AC
RANGE: see E. G. curves
RESPONSE: 4ms
BEAM: infrared 880nm
FIBER: glass

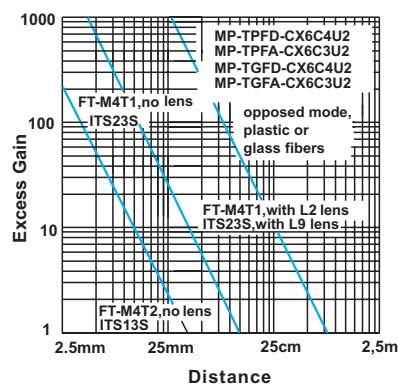
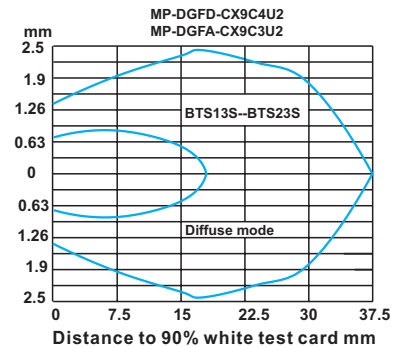


MP-DGFD-CX9C4U2

VOLTAGE: 10~30V DC
RANGE: see E. G. curves
RESPONSE: 1ms
BEAM: infrared 880nm
FIBER: glass

MP-DGFA-CX9C4U2

VOLTAGE: 24~240V AC
RANGE: see E. G. curves
RESPONSE: 4ms
BEAM: infrared 880nm
FIBER: glass

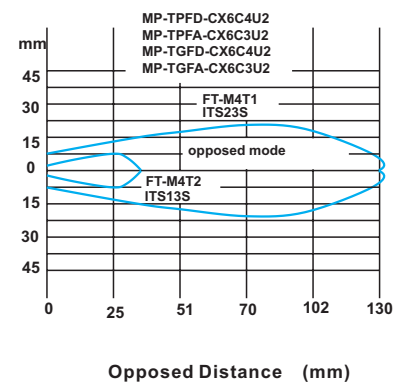


MP-TPFD-CX6C4U2 or MP-TGFD-CX6C4U2

VOLTAGE: 10~30V DC
RANGE: see E. G. curves
RESPONSE: 1ms
BEAM: red light 650nm
FIBER: plastic or glass

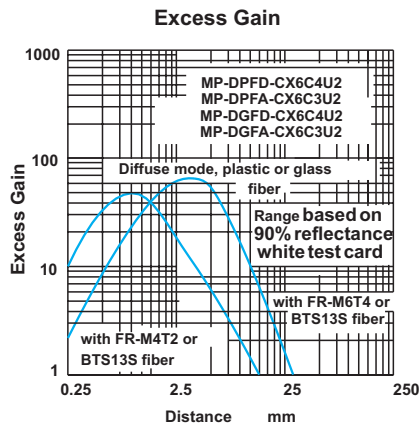
MP-TPFA-CX6C4U2 or MP-TGFA-CX6C4U2

VOLTAGE: 24~240V AC
RANGE: see E. G. curves
RESPONSE: 4ms
BEAM: red light 650nm
FIBER: plastic or glass



Sensing Characteristics (Typical)

Fiber Optic Mode

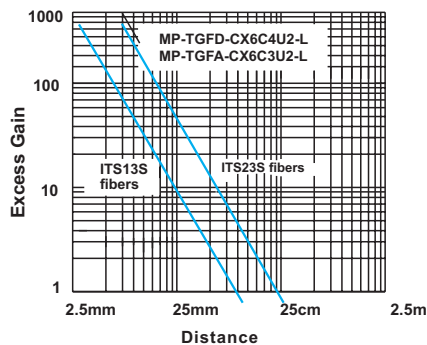
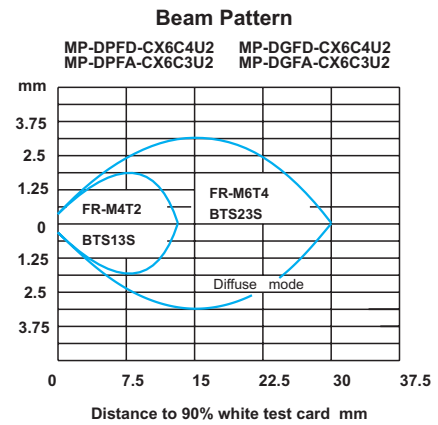


MP-DPFD-CX6C4U2 or MP-DGFD-CX6C4U2

VOLTAGE: 10~30V DC
RANGE: see E.G. curves
RESPONSE: 1ms
BEAM: red light 650nm
FIBER: plastic or glass

MP-DPFA-CX6C3U2 or MP-DGFA-CX6C3U2

VOLTAGE: 24~240V AC
RANGE: see E.G. curves
RESPONSE: 4ms
BEAM: red light 650nm
FIBER: plastic or glass

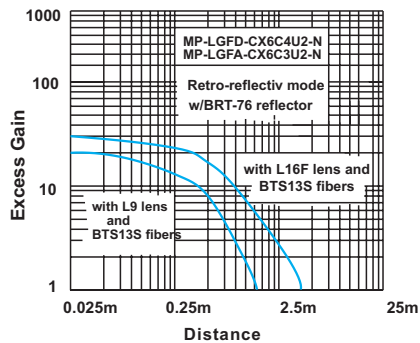
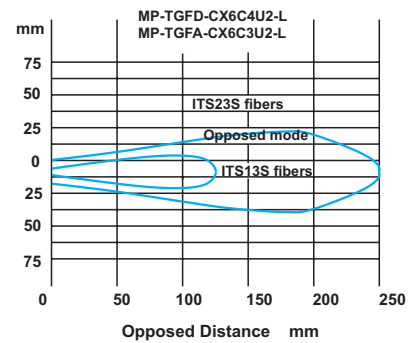


MP-TGFD-CX6C4U2-L

VOLTAGE: 10~30V DC
RANGE: see E.G. curves
RESPONSE: 1ms
BEAM: red light 650nm
FIBER: glass

MP-TGFA-CX6C3U2-L

VOLTAGE: 24~240V AC
RANGE: see E.G. curves
RESPONSE: 4ms
BEAM: red light 650nm
FIBER: glass

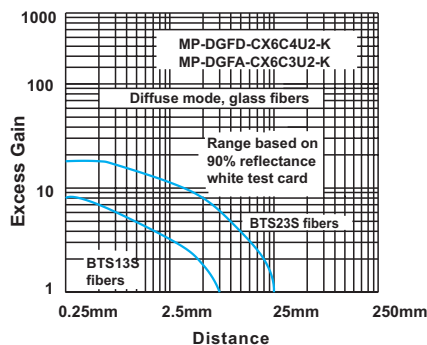
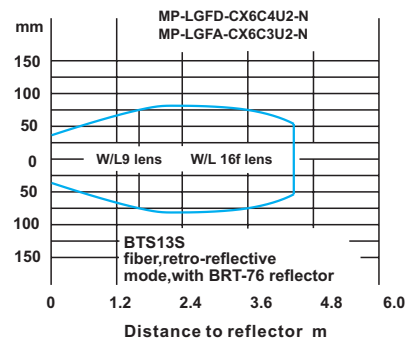


MP-LGFD-CX6C4U2-N

VOLTAGE: 10~30V DC
RANGE: see E.G. curves
RESPONSE: 1ms
BEAM: red light 650nm
FIBER: glass

MP-LGFA-CX6C3U2-N

VOLTAGE: 24~240V AC
RANGE: see E.G. curves
RESPONSE: 4ms
BEAM: red light 650nm
FIBER: glass

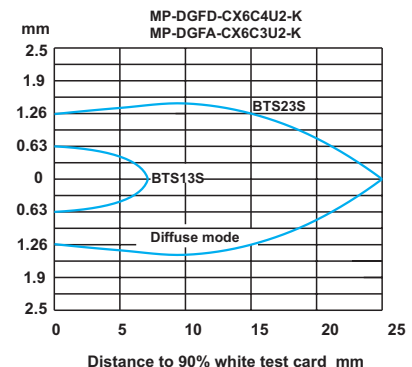


MP-DGFD-CX6C4U2-K

VOLTAGE: 10~30V DC
RANGE: see E.G. curves
RESPONSE: 1ms
BEAM: red light 650nm
FIBER: glass

MP-DGFA-CX6C3U2-K

VOLTAGE: 24~240V AC
RANGE: see E.G. curves
RESPONSE: 4ms
BEAM: red light 650nm
FIBER: glass



Accessories

Apertures

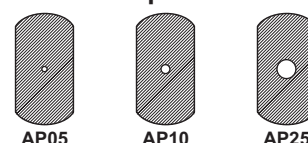
Apertures are often used in opposed mode MINIATURE-BEAM sensors, through them the narrow effective beam of the sensors to more closely match the size or profile to be sensed .

A line or slit type aperture is a common example In use when wire or thread is to be sensed. Sometime apertures can lower the excess gain of opposed mode sensors To avoid “burn-through” of thin-walled or translucent objects.

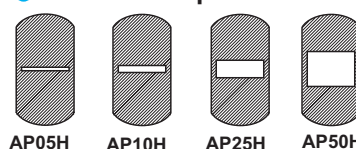
MINIATURE-BEAM apertures have three types: circular ,horizontal slotted and vertical slotted . several size are available. They are installed easily behind the lens. In upper covers.

MODEL	DIMENSIONS & STYLE
AP05	0.5mm,circular
AP10	1mm,circular
AP25	2.5mm,circular
AP05H	0.5mmX6mm,horizontal slotted
AP10H	1mmX6mm,horizontal slotted
AP25H	2.5mmX6mm,horizontal slotted
AP50H	5mmX6mm,horizontal slotted
AP05V	0.5mmX12mm,vertical slotted
AP10V	1.0mmX12mm,vertical slotted
AP25V	2.5mmX12mm,vertical slotted
AP50V	5.0mmX12mm,vertical slotted

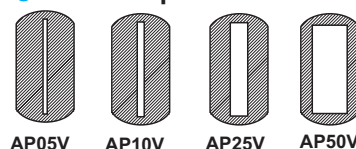
● circular apertures



● horizontal apertures



● vertical apertures



Range of miniature-beam opposed mode sensor pairs when used with apertures

Aperture used	RANGE: Standard Group I and II Sensor Pairs				RANGE: Group I Sensor Pairs with UC 300EL upper covers substituted	
	Emitter & Receiver both apertured		Receiver only apertured		Emitter/Receiver both aperture	apertured
	Group I sensors	Group II sensors	Group I sensors	Group II sensors		
AP05	90mm	100mm	450mm	1.5m	127mm	900mm
AP10	330mm	450mm	940mm	260mm	480mm	2.1m
AP25	1.5m	3m	2.5m	2.2m	2.1m	480mm
AP05H	400mm	1.8m	950mm	9m	860mm	3.3m
AP10H	900mm	4m	1.8m	12.5m	1.8m	430mm
AP25H	2.3m	10m	2.8m	20m	430m	8.5m
AP50H	2.8m	21m	3m	2m	8.2m	11m
AP05V	450mm	1.6m	1m	680mm	1m	3.3m
AP10V	1m	5m	1m	15.8m	2.1m	5.5m
AP25V	2.3m	10m	2.8m	22.8m	6m	8.5m
AP50V	2.8m	23m	3m	25.9m	8.5m	11m

Group I is consisted of MP-T3000D-EX9C3L2, MP-T3000D-CX9C4U2, MP-T3000A-EX9C2L2, MP-T3000MA-CX9C3U9, MP-T030MD-EX9C3L2-M8, MP-T030MD-CX9C4U2-M8;

Group II is consisted of MP-T030MD-EX9C3L2, MP-T030MD-CX9C4U2, MP-T030MA-EX9C2L2, MP-T030MA-CX9C3U2, MP-T030MD-EX9C3L2-M8, MP-T030MD-CX9C4U2-M8

Accessories

Lens assemblies (upper cover)

Lens assemblies (upper covers) consist of a miniature-beam head-shell, a lens, and mounting hardware. They allow sensing mode changes or sensing range changes in the field.

Table below lists the various miniature-beam types and the lens assemblies models supplied with them. With different upper covers. A miniature beam sensor body can change its sensing mode or range.

Lens Assemblies	Range	Miniature-beam type example	Lens
UC-300AG	2m (Retro-reflective Mode)	MP-D2000D-CX6C4U2	
UC-300BZ	300mm 130mm (Diffuse Mode)	MP-D0300D-CX9C4U2	
UC-300C2	43mm (Convergent Mode)	MP-C0043D-CX9C4U2	
UC-300C7	16mm (Convergent Mode)	MP-C0016D-CX9C4U2	
UC-300E	3m (Opposed Mode)	MP-T3000D-CX9C3L2	
UC-300EL	30m (Opposed Mode)	MP-T030MD-CX9C3L2	
UC-300EPD	300mm (Opposed Mode)	MP-T0300D-EX6C3L2-PD	
UC-300RPD	300mm (Opposed Mode)	MP-T0300D-CX6C4U2-PD	
UC-300F	500mm Fiber Optic	MP-TGFD-CX9C4U2	
UC-300FP	130mm Fiber optic	MP-TPFD-CX6C4U2	
UC-300L	5m (Retroreflective Mode)	MP-L5000D-CX6C4U2	