

## 2. SELECT A BASE

## 3. SELECT A RECEPTACLE

PLUG-IN BASES (pages 602-603)		Models
AC/DC	10.8-140 VDC/18-140 VAC 4-wire FET w/output indicator	MPS18HD ⚡
DC	10-30 VDC emitter base only	MPS30HD
	10-30 VDC NPN and PNP, 4-wire DC	MPS33HD ⚡
	10-30 VDC NPN N.O./N.C., 4-wire DC	MPS31HD ●
	10-30 VDC PNP, 3-wire DC	MPS32HD ●
AC	198-264 VAC 4-wire solid state AC relay 1 A max.	MPS12HD
	198-264 VAC emitter base only	MPS13HD
	92-132 VAC 4-wire bilateral FET (AC/DC) 100 mA max.	MPS17HD ●
	92-132 VAC 4-wire solid state AC relay 1 A max.	MPS11HD ⚡
	92-132 VAC emitter base only	MPS10HD ●

RECEPTACLE	Models
Standard 4-terminal, 1/2" NPT conduit thread	MPB20 ⚡
5-pin mini connector	MPB22 ●
4-pin micro connector	MPB27 ○

AC DPDT RELAY BASE (page 603)		Model
RELAY	DPDT, 92-132 VAC, 5 A, output indicator	MPSD11HD ⚡

DPDT RECEPTACLE	Models
8-terminal, 1/2" NPT conduit hole	MPB23 ●
8-terminal, 3/4" NPT conduit hole	MPB24

SPDT RELAY BASES (page 604)		Models
DC	SPDT, 10-30 VDC, 6 A	MPV31HD ●
SPDT RELAY AC	SPDT, 103-132 VAC, 6 A	MPV11HD
	SPDT, 192-264 VAC, 6 A	MPV12HD
	SPDT, 20-260 VAC/VDC, 6 A	MPV14HD ●
	SPDT, 22-26 VAC, 6 A	MPV13HD

**NO RECEPTACLE NEEDED**

MINI STYLE BASES (pages 605-607)		Models
3-WIRE DC	10-30 VDC, 2 m preleaded cable, emitter base only	▲ MPT30HD
	10-30 VDC, NPN N.O., 2 m preleaded cable	▲ MPT31HD ●
	10-30 VDC, PNP N.O., 2 m preleaded cable	▲ MPT32HD
	10-30 VDC, NPN and PNP, N.O., 2 m preleaded cable	▲ MPT33HD ⚡
4-WIRE AC	92-132VAC, 2m preleaded cable, emitter base only	▲ MPT10HD
	92-132 VAC, 4-wire bilateral FET (AC/DC), 100 mA max., 2 m preleaded cable	▲ MPT17HD
	92-132 VAC, 4-wire solid state AC relay, 0.5 A max., 2 m preleaded cable	▲ MPT11HD
AC/DC	22-26 VAC/VDC, 4-wire bilateral FET, 100 mA max., 2 m preleaded cable	▲ MPT16HD ●
MICRO CONNECT. DC	10-30 VDC, NPN N.O., 4-pin micro connector	○ MPT41HD-CM
	10-30 VDC, PNP N.O., 4-pin micro connector	○ MPT42HD-CM ●
	10-30 VDC, NPN and PNP, N.O., 4-pin micro connector	○ MPT43HD-CM ⚡
	10-30 VDC, 4-pin micro connector, emitter base only	○ MPT40HD-CM
MINI CONNECT. DC	10-30 VDC, NPN and PNP, 4-pin mini connector	● MPT43HD ⚡
	10-30 VDC, NPN N.O., 4-pin mini connector	● MPT41HD
	10-30 VDC, PNP N.O., 4-pin mini connector	● MPT42HD ●
MINI CONNECT. AC	92-132 VAC, 3-pin mini connector, emitter base only	● MPT20HD
	92-132 VAC, 4-wire solid state AC relay, 0.5 A max., 5-pin mini connector	● MPT21HD ●
	92-132 VAC, 4-wire bilateral FET (AC/DC), 100 mA max., 5-pin mini connector	● MPT27HD ●
MINI AC/DC	10.8-140 VDC/18-140 VAC, 4-wire FET w/output ind., 5-pin mini connector	● MPT28HD
MINI RELAY AC	92-132 VAC, 6 A, SPDT relay, 2 m preleaded cable	▲ MPW11HD ●
	92-132 VAC, 6 A, SPDT relay, 5-pin mini connector	● MPW21HD

### ELECTRICAL CONNECTION KEY

■	Terminal connectors
●	Mini connectors
○	Micro connectors
▲	Preleaded cable

**NO RECEPTACLE NEEDED**

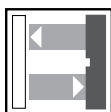
ANALOG PLUG-IN BASE (page 608)		Model
ANALOG	12-24 VDC analog output (0-5 VDC or 4-20 mA)	MPS35HD

RECEPTACLE	Models
Standard 4-terminal, 1/2" NPT conduit thread	MPB20 ⚡
5-pin mini connector	MPB22 ●

2-WIRE PLUG-IN BASES (page 609)		Models
DC	10-30 VDC emitter base only	MPS30HD
2-WIRE AC	92-132 VAC emitter base only	MPS10HD ●
	198-264 VAC emitter base only	MPS13HD
	22-26 VAC/VDC emitter base only	MPS14HD
	22-260 VAC plug-in base	MP2S11HD ⚡

- ⚡ Stocked item
  - Typical delivery 4 weeks or less
- Consult factory for all other models

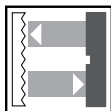
**STANDARD HEADS**



**Diffuse Mode**

Specifications	Infrared			
	450 mm	900 mm	1.3 m	3 m
SENSING RANGE	450 mm	900 mm	1.3 m	3 m
SENSITIVITY ADJUSTMENT	Yes	Yes	Yes	Yes
MODEL NUMBER(S)	MPD6HD	MPD4HD	MPD8HD	MPD1HD
	—	—	—	MPD2HD
RESPONSE TIME*	≤ 1 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
HOUSING MATERIAL	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
	LENS Plastic	Plastic	Plastic	Glass (1HD)/plastic (2HD)
ADDITIONAL DATA	<i>See page 601</i>			

\*NOTE: Total response time is the sum of the sensor head and base response times.



**Retro-Reflective Mode**

Specifications	Visible Red		Infrared	
	4.5 m	6 m	9 m	9 m
SENSING RANGE	4.5 m	6 m	9 m	9 m
SENSITIVITY ADJUSTMENT	Yes	Yes	Yes	Yes
POLARIZED FILTER	Yes	Yes	No	No
MODEL NUMBER(S)	MPP6HD	MPP1HD	MPL1HD	MPL16HD
	—	—	MPL2HD	MPL6HD
RESPONSE TIME*	≤ 1 ms	≤ 10 ms	≤ 10 ms	≤ 1 ms
HOUSING MATERIAL	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
	LENS Glass	Glass	Glass (1HD)/plastic (2HD)	Glass (16HD)/plastic (6HD)
ADDITIONAL DATA	<i>See page 601</i>			

\*NOTE: Total response time is the sum of the sensor head and base response times.