

MPF Photo Sensor Flange

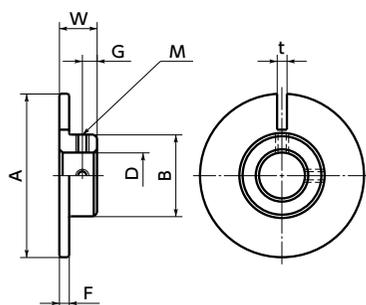
WEB Selection Tool WEB CAD Download

Structure

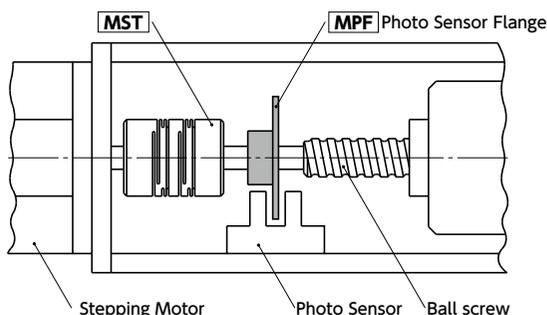


● Material/Finish ● RoHS Compliant

	MPF
Main Body	A2017 Alumite Treatment
Hex Socket Set Screw	SCM435 Ferrosoferric Oxide Film



- Photo sensor flange for origin detection.
- Light weight and ultra small moment of inertia.
- Bore-completed products. Bore diameter of $\phi 4$ to $\phi 15$.



- Products of special specifications including outside diameter of flange, slit width, bore diameter, material, and surface treatment can also be manufactured. Please contact our customer service.

Dimensions

Unit : mm

Part Number	A	B	W	F	t	G	M	Moment ^{*1} of Inertia (kg·m ²)	Mass ^{*1} (g)	Standard Bore Diameter (dimensional allowance H8)										
										4	5	6	6.35	8	9.525	10	12	14	15	
MPF-32	32	14	8	1.5	1.5	3.5	M3	5.1×10^{-7}	5.2	●	●	●	●	●						
MPF-40	40	20	10	1.5	2	4.5	M3	1.4×10^{-6}	9.8	●	●	●	●	●	●	●				
MPF-50	50	25	10	1.5	2.5	4.5	M4	3.5×10^{-6}	15			●	●	●	●	●	●	●		

*1 These are values with max. bore diameter.

- These are order-made products. For delivery period, please contact our customer service.
- All products are provided with hex socket set screw.
- In a case where the bore diameter is $\phi 4$ or less, the set screw is used in only one place.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.

- Part number specification

MPF-32-8

1 2

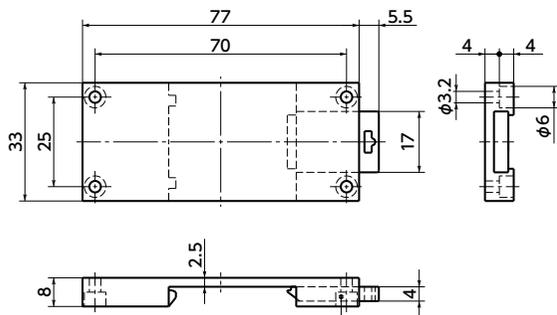
Additional Keyway at Shaft Hole → P.788 Cleanroom Wash & Packaging → P.792 Change to Stainless Steel Screw → P.790

Please feel free to contact us Please feel free to contact us Available / Add'l charge

EDP Plate for fixing DIN Rail



WEB Selection Tool WEB CAD Download



Mounting hole applicable to hex socket head cap screw (JIS B 1176) M3



Part Number	Mass (g)
EDP-70	15

● Usage example



- The bracket to be assembled to DIN rail.
- Printed board, etc. can be mounted to the DIN rail by one-touch operation.
- It can be mounted by just pressing the DIN rail front face.
- To remove it, pull up the lever or slide it over the rail.
- Use the hex socket head screws (JIS B 1176): M3 to mount the work.

● Material/Finish

RoHS Compliant

	EDP
Main body	Polyacetal (Black)
Spring	SUS631J1

● Part number specification

EDP-70



Cleanroom Wash & Packaging → P.792	Screw Length Adjustment → P.796	Vibration Resistant → P.795	Laser Marking → P.806
Available / Add'l charge	Not Available	Not Available	Please feel free to contact us

Photo Sensor Cams

Slit (Solid, Slit, Configurable Slit)

Photo Sensor Cams

Plastic, Clamping, 180 deg., Angle Adjustable

Combination use with Photo Sensor allows rotational speed detection.

Slit (Solid, Slit, Configurable Slit)

Type			Material	Surface Treatment	Accessory
Solid	Slit	Configurable Slit			
HPSCN	HPSC	HPSCZ	A6063	Black Anodize	Set Screw 2 pcs.
HPSCWN	HPSCW	HPSCZW		Clear Anodize	

RoHS

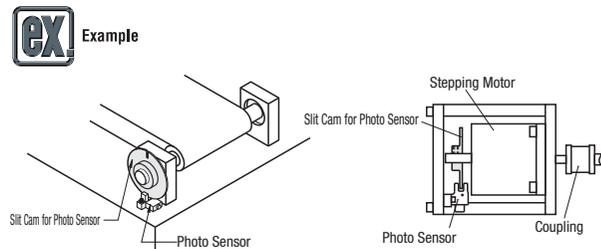
Relative positions of set screws and slit are not fixed.

Part Number	Type	D	P Selection	Z 1° Increment	M	A	B	C	S	t	HPSCN, HPSCWN		HPSC, HPSCW		HPSCZ, HPSCZW				
											Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate			
		28	5 6 8								1 ~ 9 pc(s)	10~50	1 ~ 9 pc(s)	10~50	1 ~ 9 pc(s)	10~50			
(Solid) HPSCN HPSCWN		32	3 4 5 6 6.35 8	10~350 (Available for Configurable Slit Type only)	M3	5.5	14	6.5	1.5										
		40	3 4 5 6 6.35 8								M4	20	2						
(Slit) HPSC HPSCW		45	5 6 8		M3	25	8.5	1.5											
		50	10 12 15								M4	8.5	2.5						
(Configurable Slit) HPSCZ HPSCZW		50	4 5 6 6.35 8		M3	7.5	2.5												
		60	9.5 10 12 15								M4	30							
		60	6 6.35 8																
		60	9.5 10 12 15																

Ordering Example: Part Number - P - Z
HPSCZ50 - 9.5 - 180

Alterations

Alterations	Slit Width	Shaft Bore Dia.	Number of Slits (Equal Pitch)
	SC	PC	NC
Code	SC	PC	NC
Spec.	SC=0.1mm Increment 1.0≤SC≤3.0 Applicable to HPSC and HPSCW only.	D PC Selection 32 7 40 7 9 11 50 7 9 11 13 14	Specify the number of slits following NC symbol. Ex) When the number of slits is 3 >> NC3 ① 2≤NC≤10 ② The number of slits 7 is not selectable. ③ Applicable to HPSC and HPSCW only. ④ Not applicable to D28.



Plastic

Type	Material	Surface Treatment	Accessory
HPJC	Polyacetal (Black)	-	Set Screw 2 pcs.

RoHS

Part Number	Type	D	P Selection	M	A	B	C	S	t	Unit Price	Volume Discount Rate
										1 ~ 9 pc(s)	10~50
HPJC	32	5	6 8	M3	5.5	14	8.5	1.5	1.5		
	40	5	6 8	M4	20	2	1.5				
	50	6	8	M3	7.5	25	2.5				

Ordering Example: Part Number - P
HPJC40 - 6

Clamping

Type	Material	Surface Treatment	Accessory
HPSCC	A6063	Black Anodize	Set Screw 2 pcs.

RoHS

Part Number	Type	D	P Selection	A	m	B	C	S	X	Y	t	Unit Price	Volume Discount Rate
												1 ~ 9 pc(s)	10~50
HPSCC	50	8	10 12 15	11	4.75	31	6.5	2.5	11.5	4.8	1.5		

Ordering Example: Part Number - P
HPSCC50 - 15

180 deg.

Type	Material	Surface Treatment	Accessory
PSC	Nylon 6 (Glass Fiber 30%)	-	Set Screw
PSCH	A6063	Black Anodize	3 pcs.

RoHS

Part Number	Type	P	B	D	PSC		PSCH	
					Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
					1 ~ 9 pc(s)	10~50	1 ~ 9 pc(s)	10~50
PSC PSCH		6	13	28				
		8	15	30				
		10	17	32				
		12	19	34				

Ordering Example: Part Number
PSC10

Features: Slit angle can be adjusted after installation.

Angle Adjustable

Type	Part	Material	Surface Treatment	Accessory
HPSCA	Main Body	A6063	Black Anodize	Set Screw 2 pcs.
	Angle Adjustable Plate	A5052	-	-

RoHS

Part Number	Type	D	P Selection	Z Adjustment Range	M	A	B	C	Effective Slit Depth*	Unit Price	Volume Discount Rate
										1 ~ 9 pc(s)	10~50
HPSCA	40	5	6 8	10~120	M3	5.5	20	6	5.5mm		
	50	6	8		M3	7.5	25	8.5	6.8mm		

* Effective slit depth is shallower than C because of the adjustment screw (and slot).

Ordering Example: Part Number - P
HPSCA40 - 12

Limit Switch Flags

Set Screw Type

Proximity Sensor Flags P2070

Set Screw Type

Shape	Shaft Bore	Type	Material	Surface Treatment	Accessory
One End Cone Type	Through Hole	DGSM	S45C	Black Oxide	Set Screw 2 pcs.
Both Ends Cone Type		DGWM			
One End Cone Type	Tapped Hole	DMSM	S45C	Black Oxide	Set Screw 2 pcs. / Brass Ball 2 pcs.
Both Ends Cone Type		DMWM			

6.3

DGSM (One End Cone Type with Through Hole)

DMSM (One End Cone Type with Tapped Hole)

DGWM (Both Ends Cone Type with Through Hole)

DMWM (Both Ends Cone Type with Tapped Hole)

RoHS
Part Numbers in [] are not RoHS compliant.

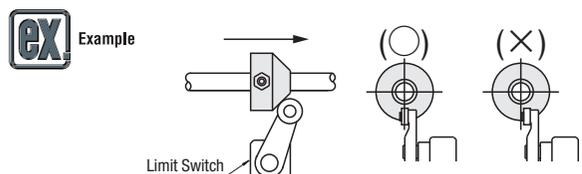
One End Cone / Both Ends Cone Type with Through Hole and Set Screw

Part Number	Type	D	d	alpha	L	Unit Price	Volume Discount Rate
						1 ~ 9 pc(s).	10~50
DGSM		30	10	45	22		
		40			24		
		50	12	16	30	45	28
DGWM		30	10	45	30		
		40			34		
		50	12	16	30	45	42

One End Cone / Both Ends Cone Type with Tapped Hole and Set Screw

Part Number	Type	D	M (Coarse)	alpha	L	Unit Price	Volume Discount Rate
						1 ~ 9 pc(s).	10~50
DMSM		30	10	45	22		
		40			24		
		50	12	16	30	45	28
DMWM		30	10	45	30		
		40			34		
		50	12	16	30	45	42

Ordering Example: Part Number Type D - d, M - alpha
 DGSM 30 - 10 - 45



Limit Switch Flags

With Slit

Proximity Sensor Flags P2070

With Slit

Shape	Shaft Bore	Type	Material	Surface Treatment	Accessory
One End Cone Type	Through Hole	DGSA	S45C	Black Oxide	Hex Socket Head Cap Screw 1 pc.
Both Ends Cone Type		DGW			
One End Cone Type	Tapped Hole	DMSA	S45C	Black Oxide	
Both Ends Cone Type		DMW			

6.3

DGSA (One End Cone Type with Through Hole)

DMSA (One End Cone Type with Tapped Hole)

DGW (Both Ends Cone Type with Through Hole)

DMW (Both Ends Cone Type with Tapped Hole)

RoHS

One End Cone / Both Ends Cone Type with Through Hole and Slit

Part Number	Type	D	d	alpha	L	M (Coarse)	A	X	Y	Unit Price	Volume Discount Rate
										1 ~ 9 pc(s).	10~50
DGSA		30	10	45	22	M5	9.0	6	6		
		40			24	M6	14.0	7	8		
		50	12	16	30	45	M8	16.5	10	10	
DGW		30	10	45	30	M5	9.0	6	6		
		40			34	M6	14.0	7	8		
		50	12	16	30	45	M8	16.5	10	10	

One End Cone / Both Ends Cone Type with Tapped Hole and Slit

Part Number	Type	D	M (Coarse)	alpha	L	M (Coarse)	A	X	Y	Unit Price	Volume Discount Rate
										1 ~ 9 pc(s).	10~50
DMSA		30	10	45	22	M5	9.0	6	6		
		40			24	M6	14.0	7	8		
		50	12	16	30	45	M8	16.5	10	10	
DMW		30	10	45	30	M5	9.0	6	6		
		40			34	M6	14.0	7	8		
		50	12	16	30	45	M8	16.5	10	10	

Ordering Example: Part Number Type D - d, M - alpha
 DGSA 40 - 12 - 45

