



PRINCIPLE TECHNICAL CHARACTERISTICS

Waterproof plunger switch (quick make/break)

Simple push-button operation (axial command only)

Operated by roller-ended plunger (compatible with oblique actuation forces)

Transfer of movement via metal bellows

Actuation force management by locknuts and positioning washers within a smooth housing

Certification AIR 8461
Letter 38259STPA of 05/08/68
 2008-2012-20008-20012 series
 Meet the requirements of AIR8461 AIR9461 AIR0711

Weight 100 to 115 grams $\pm 5\%$
 see P/N chart
 Nickel plated brass frame
 Switch terminals soldered to a hermetic connector

CONTACT ELECTRICAL CHARACTERISTICS

Load type	Electrical ratings			
	30Vdc		115Vac / 400Hz	
	Nominal rating (Amps)	Overload rating (Amps)	Nominal rating (Amps)	Overload rating (Amps)
Resistive	5	7.5	5	7.5
Inductive (L/R=5ms)	4	5	4	5
Lamp	3	5	3	5



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 6900 Orangethorpe Ave.
 P.O. Box 5032
 Buena Park, CA 90622

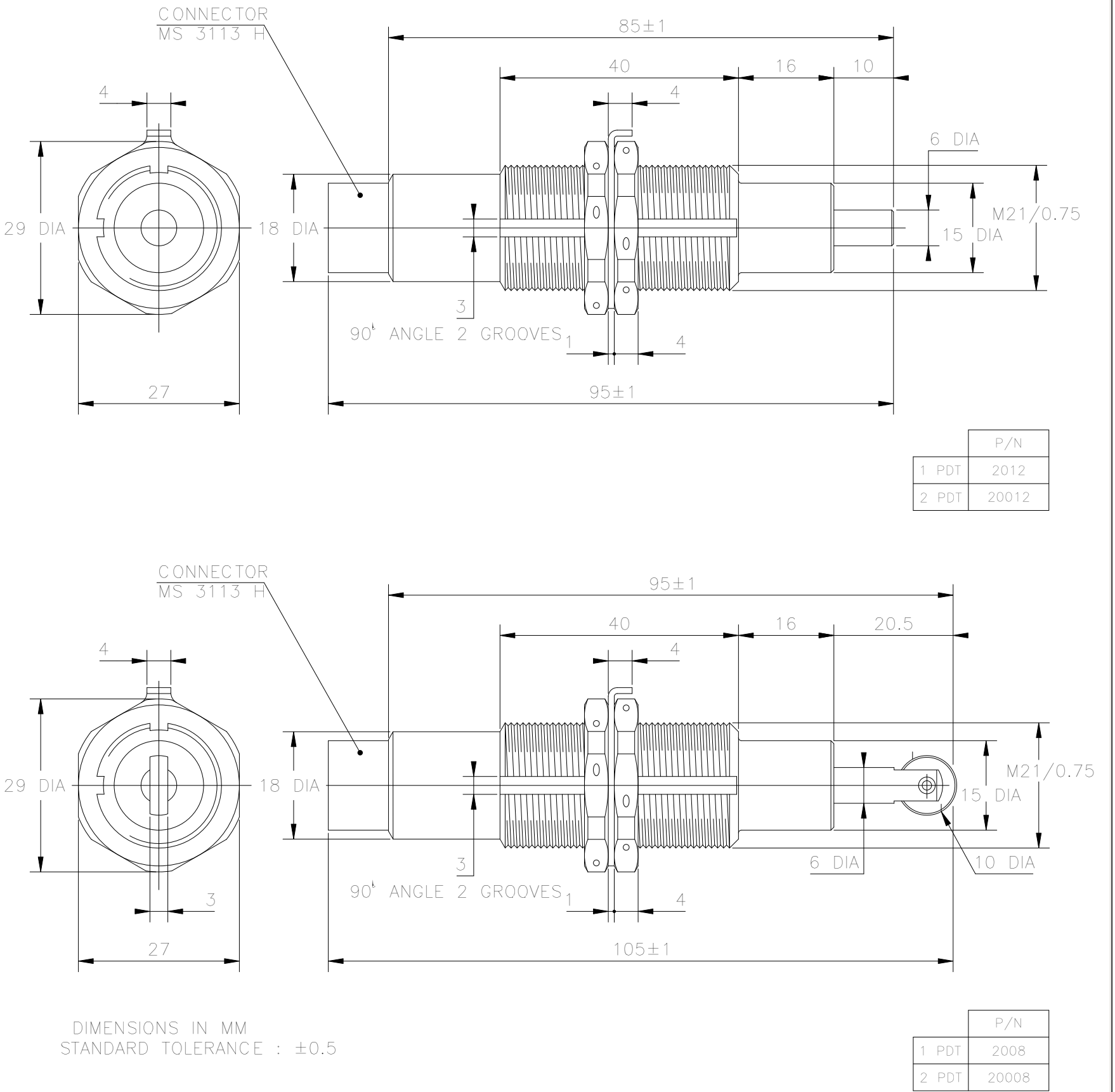
Tel: (01) 714-736-7599
 Fax: (01) 714-670-1145

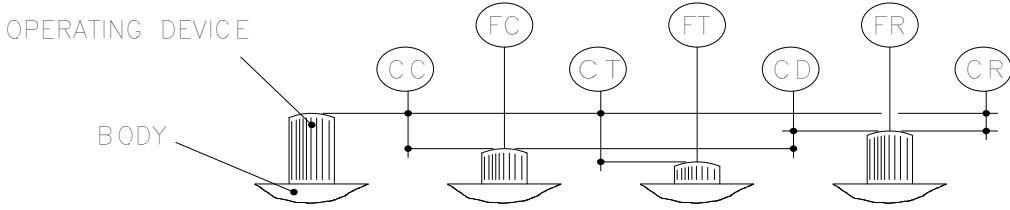
EUROPE
 2 Rue Goethe
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Data sheets are for initial product selection and comparison. Contact Esterline Power Systems prior to choosing a component.





OPERATING DEVICE

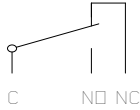
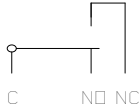
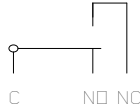
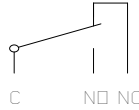
BODY

TRAVELS

CC = Operating travel
CT = Total travel max
CD = Differential travel
CR = Residual travel

FORCES

FC = Operating force
FT = Total travel force
FR = Release force
FM = Max overtravel force

POSITION	REST	OPERATING	OVERTRAVEL	RELEASE
CORRESPONDING ELECTRICAL CIRCUIT	 C NO NC	 C NO NC	 C NO NC	 C NO NC

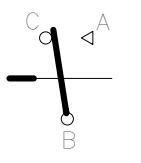
		1 PDT	2 PDT	FORCES		daN
TRAVELS		mm	mm			
CC	Operating	< 2	< 2	FC	Operating	< 3.5
CT	Total max	8	8	FT	Total max	< 8
CD	Differential	< 0.6	< 0.6	FR	Release	> 1.8
				FM	Max	15

- Angular commande capability only for roller-ended plunger models, in accordance with max travels. (see curve last page)

- For optimum use, nominal travel must be around the median of operating and total travel values.

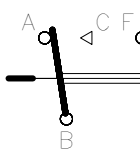
SCHEMATIC DIAGRAM

SINGLE-POLE



MS3113H 8-3AP

DOUBLE-POLE



MS3113H 10-6P

TERMINALS

hermetic connector 851 version
conforms to:

- MIL-C 26482 G series 1 (MS 3113 H)
- NFC 93422 - HE 301 B 1 H
- VG 95328 G

PART NUMBERS

P/N	Weight	Type	Actuator		Terminals	
					Connector	
	in grams ±5%	Pole (s)	Plain plunger	Roller-ended plunger	MS3113H 8-3AP	MS3113H 10-6P
2008	105	1 PDT		●	○	
2012	100	1 PDT	●		○	
20008	115	2 PDT		●		○
20012	110	2 PDT	●			○

GENERAL CHARACTERISTICS

SERIES 2008, 2012, 20008, 20012

Temperature range	-55°C to +80°C
Minimum operating cycles (life) at rated load	50,000 cycles
Dielectric strength at sea level	500 Vrms
Dielectric strength at max altitude	300 Vrms
Insulation resistance at 500 Vdc	100 M Ω
Sinusoidal vibration	10G / 20 to 2000 Hz
Shock	50G / 11 ms
Contact voltage drop, initial value	120 mV

NOTES

Admissible limits curve for angular commande

The graph shows the relationship between the operating angle α (in degrees) and the force P (in DAN). The y-axis ranges from 5 to 30 degrees, and the x-axis ranges from 0 to 400 DAN. A horizontal line at 30 degrees is labeled 'ABSOLUTE LIMIT AREA'. A curve starts at 30 degrees for 100 DAN and decreases to approximately 5 degrees at 400 DAN. The area between the curve and the 30-degree line is labeled 'OPERATING LIMITS AREA'. To the right is a mechanical diagram of the actuator showing the pivot point, the lever arm, and the force P applied at an angle α .

PANEL CUTOUT

The diagram shows a circular panel cutout with a diameter of $\varnothing 21.5$. A smaller circular feature with a diameter of $\varnothing 5$ is located at a distance of 17 units from the bottom edge of the main circle.

OTAN CODES

Type	N.N.O.
2008.....	5930 14 282 8543
2012.....	
20008.....	5930 14 282 8544
20012.....	5930 14 428 4661