

SMALL PRESSURE CONTROLS

High Volume OEM Item

Type LTB, ETB, HTB & FTB

SAGInoMIA

GENERAL DESCRIPTION

- Factory set pressure switch designed for use in refrigeration units of quantity production such as room air conditioner (heat pump), packaged air conditioner (heat pump), water chiller etc.
- With SPDT contact mechanism.
- Models identified with electrical rating code L can be used for minimum 0.02A/125V.AC rating.
- Models with 0.78 to 1.96 MPa {8 to 20 kgf/cm²} range are also available for HTB and FTB.
- Models with 0.10 MPa {1 kgf/cm²} differential are also available for HTB (max. range limit: 1.27 MPa {13 kgf/cm²}).

CE mark applicable (available upon request)

UL recognized (available upon request)



Type HTB



Type FTB

TYPE NUMBER SELECTION (SPECIFICATIONS)

Unit: MPa {kgf/cm²}

Catalog No.	Application	Range		Differential		Factory Setting		Max. Working Pressure	Pressure Connections	* Electrical Ratings	Wt. (kg)			
		Min.	Max.			On	Off							
LTB-A301	Low Pressure	0	0.392 {4}	0.059 to 0.147 {0.6 to 1.5}		0.294 {3}	0.196 {2}	1.5 {15}	①	H	0.08			
LTB-A302										M				
LTB-A303										L				
LTB-A304									②	H				
LTB-A305										M				
LTB-A306										L				
ETB-A301		0.098 {1}	0.245 {2.5}	Automatic operation on pressure decrease and manual reset		Manual Reset	0.098 {1}		①	H	0.1			
ETB-A302										M				
ETB-A303										L				
ETB-A304									②	H				
ETB-A305										M				
ETB-A306										L				
HTB-A301	High Pressure	1.96 {20}	2.94 {30}	Lower Limit 0.29 to 0.49 {3 to 5}	Upper Limit 0.29 to 0.69 {3 to 7}	1.96 {20}	2.45 {25}	3.3 {33}	①	H	0.09			
HTB-A302										M				
HTB-A303										L				
HTB-A304									②	H				
HTB-A305										M				
HTB-A306										L				
FTB-A301				Automatic operation on pressure increase and manual reset		Manual Reset					①	H	0.1	
FTB-A302												M		
FTB-A303												L		
FTB-A304											②	H		
FTB-A305												M		
FTB-A306												L		

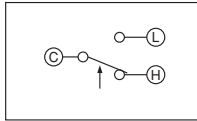
* Refer to Electrical Ratings Table in the list below.

ELECTRICAL RATINGS

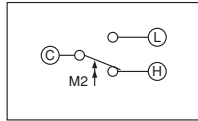
Rated Voltage (V)		Terminal	Power Factor (cos φ)	H Rating		M Rating		L Rating	
Rated Amps. (A)				125V.AC	250V.AC	125V.AC	250V.AC	125V.AC	250V.AC
Non-Inductive Current		C-L	1	1 to 10	1 to 10	1 to 3	0.5 to 1.5	0.02 to 2	0.02 to 1
Inductive Current	Full Load		0.75	1 to 6	1 to 6	1 to 2	0.5 to 1		
	Locked Rotor		0.45	1 to 24	1 to 24	1 to 8	0.5 to 4	0.02 to 8	0.02 to 4
Non-Inductive Current		C-H	1	1 to 16	1 to 16	1 to 6	0.5 to 5	0.02 to 2	0.02 to 1
Inductive Current	Full Load		0.75				0.5 to 4		
	Locked Rotor		0.45	1 to 64	1 to 64	1 to 24	0.5 to 16	0.02 to 8	0.02 to 4

CONTACT FUNCTIONS

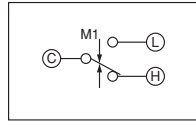
Type LTB & HTB



Type ETB (M2 : Manual Reset)



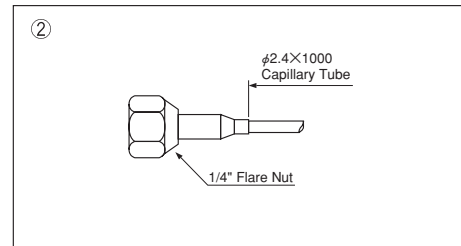
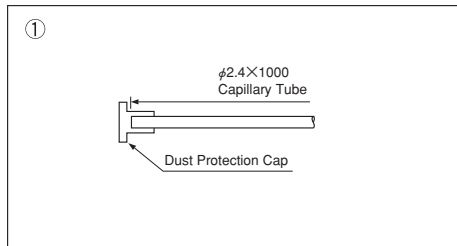
Type FTB (M1 : Manual Reset)



C	Common Terminal
L	Close on Pressure Increase
H	Close on Pressure Decrease

↑: Operating direction on press. increase at High Press.Side
M1 ↓, M2 ↑: Operating direction on manual reset

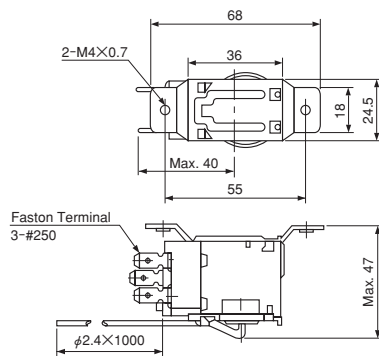
PRESSURE CONNECTIONS



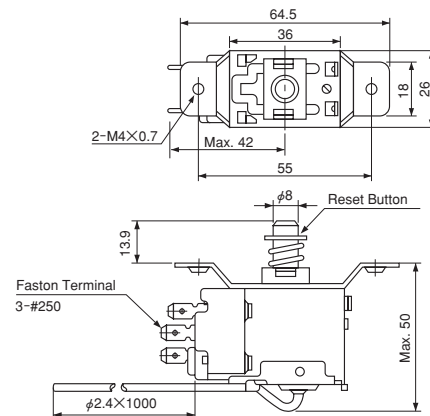
• 1/4" Solder Connection is also available upon request.

DIMENSIONS

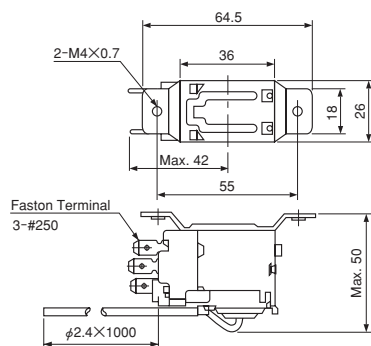
Type LTB



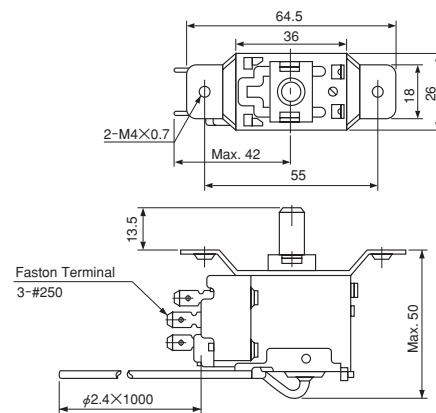
Type ETB



Type HTB



Type FTB



Unit: mm