

Outdoor Use Compact Limit Switches

LSP Series

Optimum for outdoor use, as in automated parking facilities



- Release force is approx. 1.5 times stronger than that of general-purpose limit switches, ensuring that there will be no lever return problem.
- Wide -30 to +80°C operating temperature range (no freezing allowed).
- Superior weather-resistant metals and resins are used.
- Mounting is compatible with Yamatake's 14CE and LS switches.
- Standard M12 connector for easy installation at the work site.
- Lever can be reliably set on the shaft at 15° intervals due to the gear type lever fixing method.
- Rugged aluminum die-cast housing



CLICK

CATALOG LISTING

Model	Contact material	Connector and cable	Catalog listing	
			LSP5-□A□0-PD□□ Operating force(O.F.) = 5N	LSP5-2B□1-PD□□ Operating force (O.F.) = 4N
Roller lever	Gold alloy	M12 connector	LSP5-1A10-PD	—
		M12 preleaded connector, 30cm	LSP5-1A10-PD03	—
	Silver	M12 connector	LSP5-1A30-PD	—
		M12 preleaded connector, 30cm	LSP5-1A30-PD03	—
Non-lever (Note1)	Gold alloy	M12 connector	—	LSP5-2B11-PD
		M12 preleaded connector, 30cm	—	LSP5-2B11-PD03
	Silver	M12 connector	—	LSP5-2B31-PD
		M12 preleaded connector, 30cm	—	LSP5-2B31-PD03
Adjustable Roller lever	Gold alloy	M12 connector	LSP5-3A10-PD	—
		M12 preleaded connector, 30cm	LSP5-3A10-PD03	—
	Silver	M12 connector	LSP5-3A30-PD	—
		M12 preleaded connector, 30cm	LSP5-3A30-PD03	—

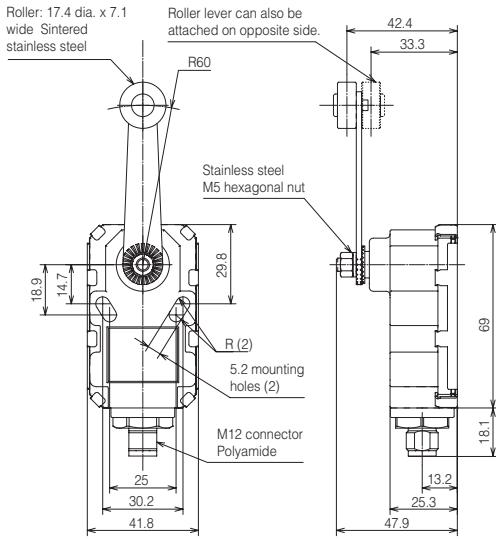
Note: The operating force (O.F.) value is for a lever length of 60mm
 Note1: Use in combination with general-purpose LS levers (6PA-J148, LS-6PA58, etc.).

SPECIFICATIONS

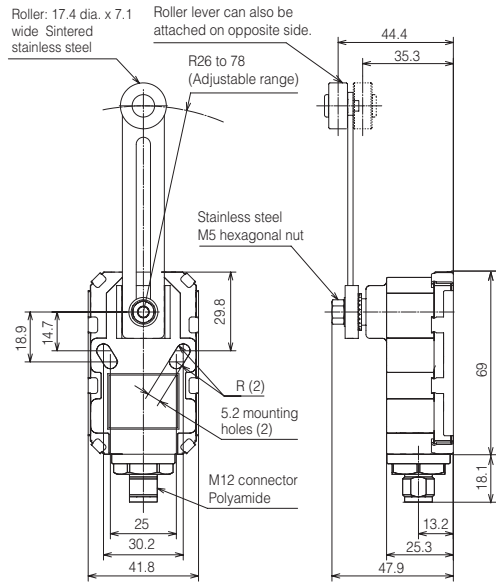
Catalog listing		LSP5-□A10-PD□□ LSP5-2B11-PD□□	LSP5-□A30-PD□□ LSP5-2B31-PD□□
Type		Gold alloy contacts	
Standards		Compliance	
Structure		Contact type	
		Contact shape	
		Protective structure	
Electrical performance		Electrical rating	
		Dielectric strength	
		Insulation resistance	
		Initial contact resistance	
		Recommended minimum voltage and current	
Mechanical performance		Actuator strength	
		Impact resistance	
		Vibration resistance	
		Allowable operating speed	
		Operating frequency	
		Connector inserting/pulling force	
		Inserting/pulling cycle endurance	
		Tightening strength of coupling	
Life		Mechanical	
		Electrical	
Ambient conditions		Operating temperature	
		Operating humidity	
Recommended tightening torque		Body	
		Lever	
		Connector	

Connector type

● **Roller lever type**

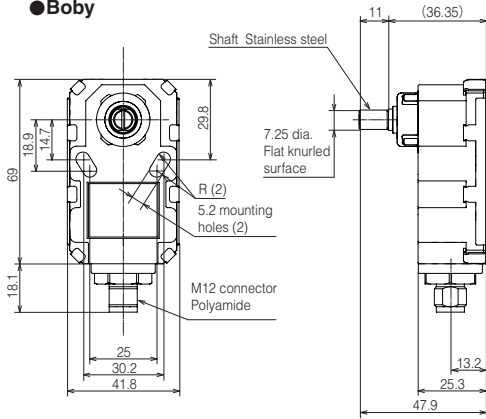


● **Adjustable roller lever type**

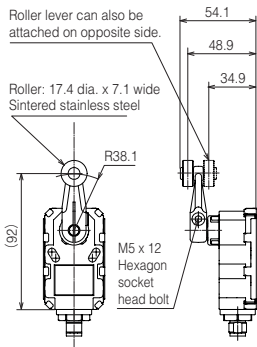


● **Non-lever type**

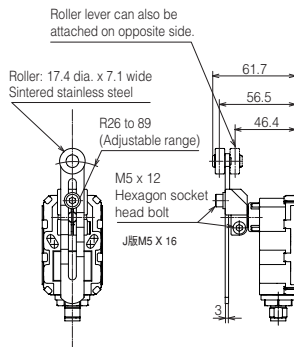
● **Boby**



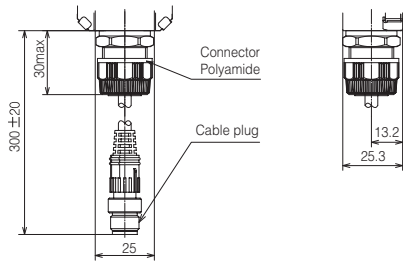
● **With 6PA-J148**



● **With LS-6PA58**



PRELEADED CONNECTOR TYPE (DIMENSIONS OF BODY ARE SAME AS FOR CONNECTOR-TYPE SWITCH)



OPERATING CHARACTERISTICS

● LSP5-□A□0-PD□□ (Operating force 5N type)

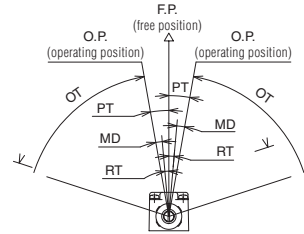
O.F. (operating force)	5.0N	max
R.F. (release force)	1.1N	min
P.T. (pretravel)	30°	max
M.D. (movement differential)	5°	max
O.T. (overtravel)	40°	min
R.T. (release travel)	—	min

Note: O.F. and R.F. values are for a lever length of 60mm.

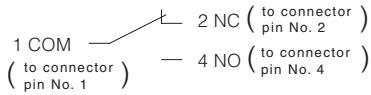
● LSP5-2B□1-PD□□ (Operating force 4N type)

O.F. (operating force)	6.3N	max
R.F. (release force)	1.1N	min
P.T. (pretravel)	30°	max
M.D. (movement differential)	5°	max
O.T. (overtravel)	40°	min
R.T. (release travel)	—	min

Note: O.F. and R.F. values are for a lever length of 38mm.



CIRCUIT DIAGRAM



CONNECTOR PIN LAYOUT

