Intelligent Linear Actuator

PSL210AMS12 -40°F
Low Temperature Version

Positioner integrated

1 686 lbf
Max. thrust)[1]

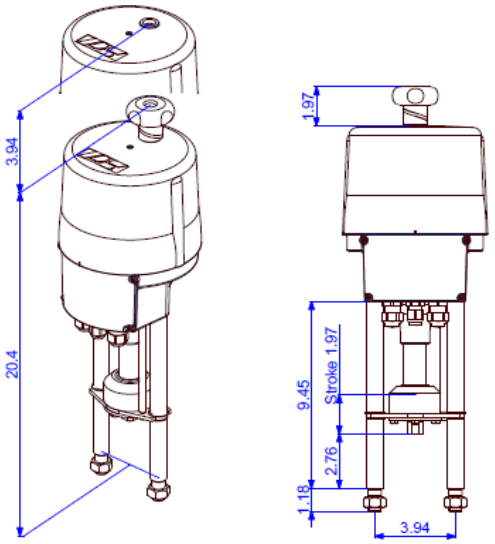
127 - 14.9 Secs/In.
Stroke Speed

Stroke 1.97 In.
opt. 2.56 In.

Modulating actuator
Class C
DIN EN ISO 22153

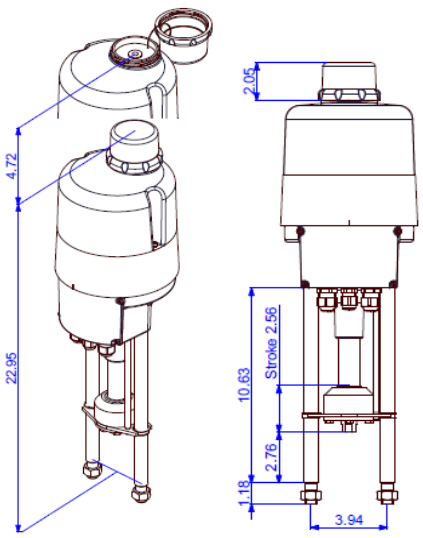
Enclosure IP65
EN 60529

Stroke 1.97 (IP65)



Approx. weight: 22.1 lb without accessories

Stroke 2.56 (IP67)



Approx. weight: 26.5 lb without accessories

Stroke Speed	29.89 - 14.9 Secs/In. (adjustable)			
Power supply [V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...575 VAC 3~)[2]
Nominal current)[3] [A]	0.42	0.84	4(AC) / 2.5(DC)	
Max. current)[3] [A]	0.55	1.1	5.3(AC) / 3.3(DC)	
Power consumption)[4] [W]	78	78	73(AC) / 61(DC)	

PSL210 AMS12

Standard	Description
Ambient temperature [°F]	-40°F to +140°F
Motor protection	Electronic motor current monitoring with safety cut-off
Overvoltage category	II
Break away force	Adjustable up to +50% nominal force
Duty cycle as per	IEC 60034-1,8 S2 30 min S4 50% ED @ 77°F
Control signal and feedback	0 (4)..20 mA or 0 (2)..10 V selectable, split range operation
Binary control	24 V - 230 V for ON/OFF control (min. duration of pulse 1s)
Valve positioner function	Integrated, deadband adjustable from 0.5 .. 5%, shut-off MIN
Automatic start-up	Recognizing the end position(s) and autoscaling set and feedback values
Internal fault monitoring	Thrust, control signal, temperature, power supply
Fault indication relay FIR	Standard, potential-free opening contact provides a freely definable (programmable) collective fault signal and doubles for indication for when optional Local Controls is NOT in remote mode
Diagnostics function	Stores cumulated operation data (motor and total running time, number of motor starts) and data sets of current values (set value, feedback value, torque, temperature and error messages)
Communication interface	Connecting to a USB port and a software, allows data reading and parametrisation
Conduit entries	2 pcs. M20 x 1,5 and 1 pcs. M16 x 1,5

Standard equipment

)[1] = permissible average force over the entire travel is 50% of the max. thrust

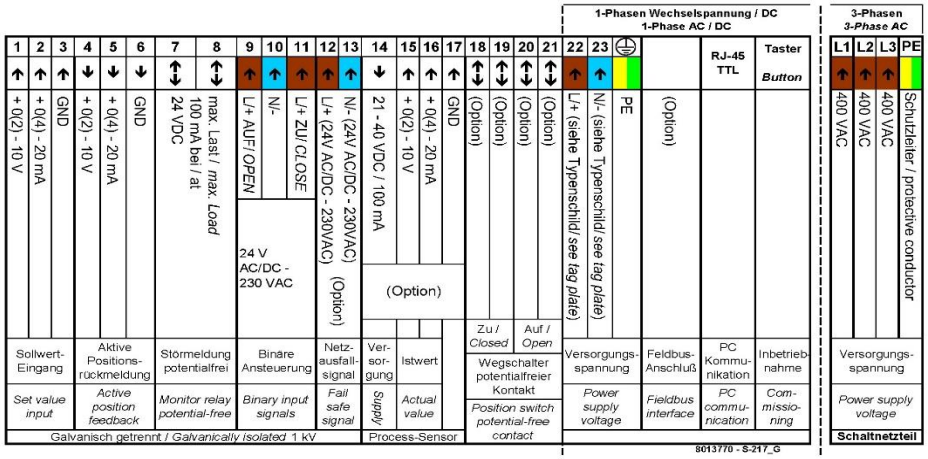
)[2] = max. input voltage range

)[3] = data may vary depending on accessories

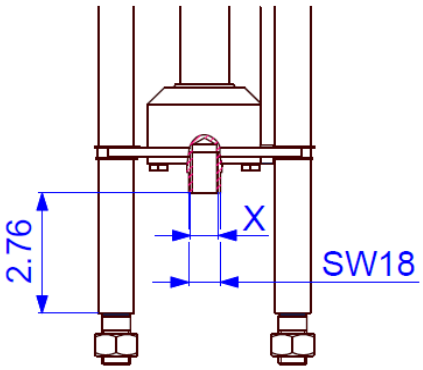
)[4] = at max. thrust, data may vary depending on accessories

Technical Data

Wiring Termination



Dimensions of the PS Standard Adaptation

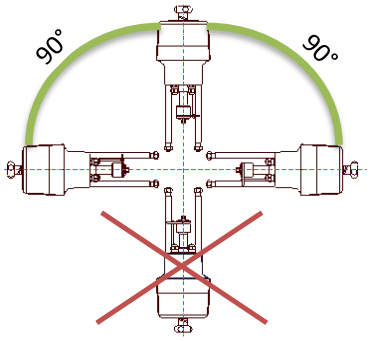


Connection Thread X

M8	Optional
M10	Optional
M12	Optional
M14	Optional
M16	**Standard**

Fine threaded and other sizes on request!

Mounting Position



Accessories/Options

Position signal switches	2WE	2 potential-free position switches, mechanical, with silverplated changeover contacts, 24V to 230 V AC/DC @ 0.1A- 5A
Position signal switches gold, mechanical	2WE Gold	2 potential-free position switches, mechanical, with gold-plated changeover contacts 5 V to 30 V AC/DC @ 1mA- 100mA; contact resistance 30 mOhm
Integrated process controller	PSIC	Enables the autonomous control of a process so that an external controller is not required.
Fail-safe*	PSCP	Emergency power supply based on supercapacitors, safety position OPEN, CLOSED or free defined position
Fieldbus interface*		Digital transmission of nominal and actual value per mill or percent, report of monitoring and diagnostic data using Profibus DP (PSPDP) or CANOpen (PSCA) interfaces, additional interfaces available on request
Local control station	PSC.2	Illuminated display to show the actuator status and lockable selector to switch between modes: automatic, manual process ON/OFF, STOP and parameter menu. Control buttons for manual movement, menu operation and adjustment of parameters, display of diagnostic information
Remote local control		Mounting separately from the actuator (incl. 10 m connection cable)
Data cable	PSCS-USB	USB data cable enables the communication between the actuator and a PC by using the software PSCS
Fail-safe port*	FSP	Signal port to drive to a "safety position", selectable fail-safe position, standard 24 - 230 V
IP67		Increased enclosure IP67
Heating resistor	HR	Heating resistor to prevent condensation

*not retrofittable

Subject to changes!

For more information and accessories, please visit our website www.ps-automation.com!