



LS-Titan® Miniature DIN Switches

SWITCHES

ENCLOSURES

POWER

INTERCONNECT

TEST & MEASUREMENTS

PASSIVE & ACTIVE

OPTOELECTRONICS

ASSEMBLY

INDEX



LS-S02 LSM-XP LSM-XRL LS-XP LSM-XRLA LS-XRR LS-XS LS-XRRM LS-XL LS-XLS LS-XRL

Eaton's LS-Titan® limit switch line is a complete offering of safety position switches designed for worldwide application. Economical insulated plastic or rugged metal enclosures and modular, plug-in operating heads and bodies make LS-Titan a flexible switching solution. A highlight of the LS-Titan switch line is the world's first electronic position switch (LSE Models). These switches feature freely programmable operating points that can be set individually at any time. Additional LSE models provide analog outputs proportional to the actuator position. LS-Titan switches are suitable for use in safety applications designed to protect persons or processes.

- Features:**
- ▶ Modular, Plug-In System (Head and Body Components)
 - ▶ Positive Opening NC Contacts for Safety Applications
 - ▶ Wide Variety of Economical Plastic and Rugged Metal Versions Available
 - ▶ Operating Heads Can Be Rotated 90 Degrees to Suit Specific Direction of Operation
 - ▶ Unique Electronic Safety Position Switches (LSE Models) Provide Analog (0-10 VDC or 4-20 mA) Outputs Proportional to the Actuator Position and Allow for Easy Configuration of a Custom Trip Point
- Standards and Certifications:**
- ▶ Safety Function By Positive Opening Contacts Per IEC/EN 60947-5-1 Up to Category 4 Per EN 954-1
 - ▶ TÜV-Rheinland Certified for Functional-Safety (LSE Models)
 - ▶ CSA Certified
 - ▶ UL Listed
 - ▶ CE
 - ▶ CCC

Stock No.	Mfr.'s Type	Description	EACH
70058343	LS-S02	Titan, Switch, Mini DIN, Plastic, Top Push, Screw Term, 2-NC	33.51
70058344	LS-S11S	Titan, Switch, Mini DIN, Plastic, Snap Action, Screw Term, 1NO-1NC	29.74
70058345	LSE-AI	Titan, Switch, Mini DIN, Electronic, 4-20 mA, Analog Output	145.99
70058346	LSE-AU	Titan, Switch, Mini DIN, Electronic, 0-10 VDC Output	145.99
70058347	LSM-XP	Accessory, Titan, Metal Limit Switch, Head, Roller Plunger	20.80
70058348	LSM-XRL	Accessory, Titan, Metal Limit Switch, Head, Rotary Lever	31.51
70058349	LSM-XRLA	Accessory, Titan, Metal Limit Switch, Head, Adj., Roller Lever	33.51
70058350	LS-XRLA	Accessory, Titan, Adjustable Plastic Roller Lever, 18 mm Roller	16.11
70058351	LS-XRR	Accessory, Titan, Limit Switch Head, Plastic, Rod Lever	18.70
70058352	LS-XS	Accessory, Titan, Limit Switch Head, Plastic, with Wobble Spring Rod	15.51
70058353	LS-XRRM	Accessory, Titan, Limit Switch Head, Plastic, with Metal Rod	16.11
70058354	LS-XP	Accessory, Titan, Limit Switch Head, Plastic, Top Push Roller Plunger	4.69
70058355	LS-XL	Accessory, Titan, Limit Switch Head, Plastic, Roller Lever, Long	2.72
70058356	LS-XLS	Accessory, Titan, Limit Switch Head, Plastic, Roller Lever, Short	7.20
70058357	LS-XRL	Accessory, Titan, Limit Switch Head, Plastic, Rotary Lever	12.71

Precision Basic Switch — E47 Series

E47 Precision Switches from Eaton's electrical sector provide high accuracy switching at an affordable price. A variety of standard features, such as current capacity, operating force, travel characteristics and actuators, lets you custom fit the switch to your application. The switches are available in their compact basic form, or enclosed in a rugged, metal housing.

- ▶ Compact Housings Are Ideal for Use Where Space Is Restricted
- ▶ Precision, Snap-Action Operators Provide Accurate Repeatability of Electrical and Mechanical Operating Characteristics
- ▶ High Current Capacity (Up to 20 A) Allows Power Load Switching and Motor Handling Capability
- ▶ Enclosed Booted Versions Shield Actuators from Debris
- ▶ UL Recognized
- ▶ CSA Certified
- ▶ CE



Enclosed

Stock No.	Mfr.'s Type	Actuator Type	O.F. (N)	R.F. (N)	P.T. (mm)	O.T. (mm)	M.D. (mm)	O.P. (mm)	EACH
70058666	E47BLS06	Booted Plunger	28.22	8.46	0.079	0.197	0.004	1.803	42.16
70058667	E47BLS32	Roller Lever	20.10	6.00	0.157	0.236	0.016	—	56.55
70058668	E47BLS33	Booted Roller Lever	22.57	8.11	0.197	0.236	0.016	—	62.02
70058669	E47BLS14	Booted Wobble	2.11	0.88	0.520	0.315	0.039	—	47.62



E47BLS32

Basic

Stock No.	Mfr.'s Type	Actuator Type	O.F. (N)	R.F. (N)	P.T. (mm)	O.T. (mm)	M.D. (mm)	O.P. (mm)	EACH
70058653	E47BMS01	Pin Plunger	12.30	4.02	0.016	0.005	0.002	0.626	9.28
70058654	E47BMS03	Extended Plunger	12.30	4.02	0.016	0.063	0.002	1.110	11.71
70058655	E47BMS21	Reversed Lever	5.29	0.49	0.160	0.063	0.051	0.685	10.91
70058656	E47BMS22	Straight Lever	2.47	0.49	0.394	0.220	0.051	0.748	10.91
70058657	E47BMS20	Standard Lever	3.53	0.99	0.197	0.079	0.039	0.748	13.28
70058658	E47BMS10	Roller Plunger	12.30	4.02	0.016	0.140	0.002	1.315	20.66
70058659	E47BMS42	Extended Roller Lever	5.64	0.78	0.280	0.160	0.040	1.189	13.91
70058660	E47BMS30	Roller Lever	5.64	1.48	0.106	0.094	0.020	1.189	13.28
70058661	E47BMS23	Integral Leaf	0.35	0.10	0.787	0.220	0.118	0.748	11.71
70058662	E47BMS40	Adjustable Roller	17.64	6.00	0.197	0.500	0.087	1.591	15.75
70058663	E47BMS43	Extended Adjustable Roller	21.16	10.58	0.118	0.236	0.079	1.591	15.75



E47BMS43



E47PA1

E47PA2

Accessories

Stock No.	Mfr.'s Type	Actuator Type	EACH
70058664	E47PA1	Terminal wire cover, 45° conduit entry	3.29
70058665	E47PA2	Terminal wire cover, 90° conduit entry	3.29