



Enhancing Efficiency and Reliability for Industrial and Automotive Applications

24V Switch and Latch Products



Allegro's latest 3-wire, 24V-ready switch and latch sensors offer versatile magnetic sensing and ultra-low jitter performance, designed for automotive and industrial applications. Their wide 2.7V to 26V input range allows direct connection to 12V or 24V rails without external regulators, enabling simpler, more cost-effective system designs.

► Quieter, More Reliable Motor Performance

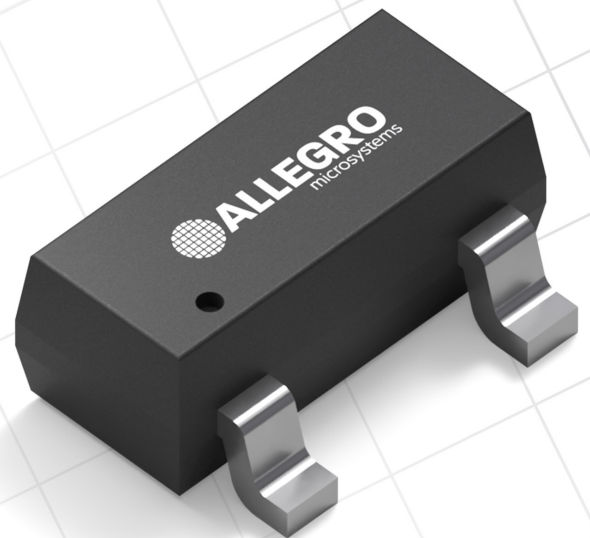
Ultra-low jitter latch performance enhances low-speed torque and position accuracy, resulting in smoother and quieter BLDC motor operation. More efficient motor operation improves thermal management, extending motor life..

► Cost-Effective, Design Flexibility

Broad input voltage range eliminates the need for additional regulators, lowering system costs and simplifying designs. Precision performance supports wider air gaps, relaxing manufacturing tolerances and reducing costs.

► Accelerated Time to Market

Detection thresholds of 10 G to 400 G accommodate a wide range of magnetic configurations, streamlining development timelines for faster time to market.



Key Applications

Industrial Automation, Automotive, Robotics, Smart Homes, White Goods, Power & Garden Tools, In-Cabin Motors, Personal Mobility, Closure Systems

SWITCH PRODUCTS

Part Number	Supply Voltage Min	Supply Voltage Max	Typical BOP (G)	Typical BRP (G)	Temp Ranges	Package
APST11203LMDALX-1PLO	2.7	26	15	10	-40°C to 150°C	3-Pin SOT23W
APST11203LMDALX-3SLO			30	20		
APST11203LMDALX-5SLO			95	70		
APST11203LMDALX-7PLO			200	150		
APST11203LMDALX-8PLO			280	220		
APST11203LMDALX-9PLO			400	330		
APST11203KMDALX-1PLO			15	10	-40°C to -125°C	
APST11203KMDALX-3SLO			30	20		
APST11203KMDALX-5SLO			95	70		
APST11203KMDALX-7PLO			200	150		
APST11203KMDALX-8PLO			280	220		
APST11203KMDALX-9PLO			400	330		

LATCH PRODUCTS

Part Number	Supply Voltage Min	Supply Voltage Max	Typical BOP (G)	Typical BRP (G)	Temp Ranges	Package
APST12203LMDALX-0SLO	2.7	26	10	-10	-40°C to 150°C	3-Pin SOT23W
APST12203LMDALX-2SLO			20	-20		
APST12203LMDALX-3SLO			30	-30		
APST12203LMDALX-4SLO			50	-50		
APST12203LMDALX-5SLO			95	-95		
APST12203LMDALX-6SLO			150	-150		
APST12203KMDALX-0SLO			10	-10	-40°C to -125°C	
APST12203KMDALX-2SLO			20	-20		
APST12203KMDALX-3SLO			30	-30		
APST12203KMDALX-4SLO			50	-50		
APST12203KMDALX-5SLO			95	-95		
APST12203KMDALX-6SLO			150	-150		

