

## Product Overview

### H11L2M: 6-Pin DIP Schmitt Trigger Output Optocoupler

For complete documentation, see the data sheet.

The H11LXM series has a high speed integrated circuit detector optically coupled to a gallium-arsenide infrared emitting diode. The output incorporates a Schmitt trigger, which provides hysteresis for noise immunity and pulse shaping. The detector circuit is optimized for simplicity of operation and utilizes an open collector output for maximum application flexibility.

### Features

- High data rate, 1MHz typical (NRZ)
- Free from latch up and oscillation throughout voltage and temperature ranges.
- Microprocessor compatible drive
- Logic compatible output sinks 16mA at 0.4V maximum
- Guaranteed on/off threshold hysteresis
- Wide supply voltage capability, compatible with all popular logic systems
- Underwriters Laboratory (UL) recognized—file #E90700, Volume 2
- VDE recognized – File #102497 – Add option V (e.g., H11L1VM)

### Applications

- Consumer Appliances
- Industrial Motor

### Part Electrical Specifications

Product	Compliance	Status	Data Rate (Mbps)	V <sub>CC</sub> (Max) (V)	V <sub>CC</sub> (Min) (V)	Channels	I <sub>FT</sub> (Max) (mA)	V <sub>OL</sub> (Max) (V)	I <sub>OCL</sub> (Max) (mA)	t <sub>PHL</sub> (Max) (ns)	t <sub>PLH</sub> (Max) (ns)	PWD (Max) (ns)	CMR (Max) (kV/μs)	V <sub>ISO</sub> (Min) (V)	T <sub>OPR</sub> (Min) (°C)	T <sub>OPR</sub> (Max) (°C)	Package Type
H11L2M	Pb-free	Active	1	15	3	1	10	0.4	5	4000	4000	-	-	4200	-40	85	PDIP-6
H11L2SM	Pb-free	Active	1	15	3	1	10	0.4	5	4000	4000	-	-	4200	-40	85	PDIP-6
H11L2SR2M	Pb-free	Active	1	15	3	1	10	0.4	5	4000	4000	-	-	4200	-40	85	PDIP-6
H11L2SVM	Pb-free	Active	1	15	3	1	10	0.4	5	4000	4000	-	-	4200	-40	85	PDIP-6
H11L2TVM	Pb-free	Active	1	15	3	1	10	0.4	5	4000	4000	-	-	4200	-40	85	PDIP-6
H11L2VM	Pb-free	Active	1	15	3	1	10	0.4	5	4000	4000	-	-	4200	-40	85	PDIP-6

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