SCIONIX

51BM0.25/SIP-EJ440-E3-X2

Thin alpha SiPM detector (ZnS(Ag))

Thin alpha detector with a ZnS(Ag) scintillator (EJ-440), Ø 51 x 0.25 mm, read out by a SiPM array with a built-in temperature-compensated bias generator and preamplifier. It runs on +5–16 V and connects through a LEMO connector or flying leads.



Scintillator
ZnS(Ag), Ø 51 x 0.25 mm (EJ-440) [1]

Power supply
+5–16 V (3 mA) [1]

Specifications

DETECTOR		
Scintillator	ZnS(Ag), Ø 51 x 0.25 mm (EJ-440)	[1]
Light sensor	SiPM array J-60035-4P	[1]
ELECTRONICS & SIGNAL		
Gain	Approx. 500 mV per 5.48 MeV (alpha)	[1]
CONNECTIVITY & INTERFACE		
Electrical connection	LEMO FFA0S302CLAC44 or flying leads; 100 cm shielded 4-core cable	[1]
POWER & BATTERY		
Power supply	+5–16 V (3 mA)	[1]
MECHANICAL		
Detector housing	Black light-tight polyester	[1]
ENVIRONMENT & RATINGS		
Entrance window	Light-tight double aluminised Mylar, 0.9 mg/cm²	[1]
GENERAL		
Protection grid	Stainless steel grid with 72% transmission	[1]
Rise time	1 µs (alpha, 0–100%)	[1]
Fall time	3 µs (alpha)	[1]

Sources

[1] **51BM0.25/SIP-EJ440-E3-X2 – data sheet**
Scionix · datasheet · p. 1 · checked 2026-11-26
https://scionix.nl/wp-content/uploads/2022/10/Alpha-SiPm-scintillator.pdf

Every value is taken from the manufacturer’s own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer’s published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.