

# Interpolators with single-ended input



Two variants of the RGE interpolator are designed to accept either 1 Vpp or 4 Vpp single-ended analogue inputs:

**A-9539-2245**

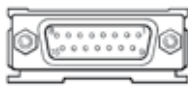
4 Vpp single-ended analogue input, x 5 interpolation factor, 20 MHz RS422A square wave output signals in quadrature.

**A-9539-2246**

1 Vpp single-ended analogue input, x 25 interpolation factor, 20 MHz RS422A square wave output signals in quadrature.

For full specification see Data sheet L-9517-0188.

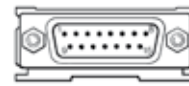
**Input**



**Connector** 15 pin sub D, socket

**Signal** Input from 1 Vpp/4 Vpp analogue readhead.

**Output**



**Connector** 15 pin sub D, plug

**Signal** RS422A square wave signals in quadrature.

Function	Signal	15 pin D type
Power (output)	5 V	4, 5
	0 V	12, 13
Incremental signals	V <sub>1</sub>	1
	V <sub>2</sub>	2
Reference mark	V <sub>0</sub>	3
Reference voltage	V <sub>ref</sub>	9, 10, 11
Limit switch	V <sub>q</sub>	8
Reserved	Do not connect	6, 7, 14
Shield	Inner	15
	Outer	Case

Function	Signal	15 pin'D' type
Power (input)	5 V	7/8
	0 V	2/9
Incremental signals	A+	14
	A-	6
	B+	13
	B-	5
Reference mark	Z+	12
	Z-	4
Limit switch	Q	10
	E+	11
Alarm	E-	3
	X	1
External set-up	X	1
None	Not connected	15
Shield	Outer	Case

**NOTE:** The presence of limit switch and reference mark signals is dependent on the type of head used.

