

Signal Processing

Fiber-optic transmitter for interference-free transmission of square-wave signals

HEAG 175, HEAG 176



HEAG 175, HEAG 176

Features

- For high interference locations
- Converting standard square-wave signals into fiber-optic signals
- Each channel is coupled onto fiber-optic easy-to-fit plug
- 3 different plug versions available
- Delay time over a 100 m length of fiber-optic is 1 μ s
- Except of POF all fiber optic cable usable, e. g. PCF 200 μ m, silica fiber 50 and 62.5 μ m

Technical data - electrical ratings

Voltage supply	HEAG 175: 9...26 VDC; 5 VDC \pm 5 % HEAG 176: 9...26 VDC
Consumption	\leq 200 mA
Inputs	HEAG 175: 3 x TTL HEAG 176: 3 x HTL
Input signals	K1, K2, K3 + inverted
Outputs	3 x fiber-optic
Output signals	Fiber-optic 1, 2 and 3
Transmission frequency	\leq 250 kHz
Transmission length	\leq 300 m
Approval	CE

Technical data - mechanical design

Dimensions W x H x L	50 x 75 x 55 mm
Protection DIN EN 60529	IP 20
Operating temperature	-20...+50 °C (without dew)
Connection	Screw terminal connector 3x connector (VL, ST or SMA)

Part number

HEAG17

	<u>Type of plug connector</u>
	VL Type VL
	ST Type ST
	SMA Type SMA
	<u>Voltage supply / signals</u>
5 TTL	5 VDC - 3x TTL
5 R	9...26 VDC - 3x TTL
6 HTL	9...26 VDC - 3x HTL

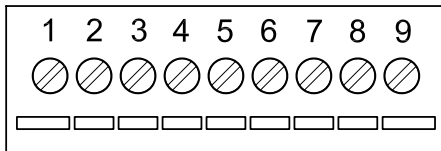
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Terminal assignment

Terminal	Assignment
1	+UB
2	0 V \perp
3	K1
4	$\overline{K1}$
5	K2
6	$\overline{K2}$
7	K3
8	$\overline{K3}$
9	UB/2*



* HEAG 176 without inverted signals:
Link output UB/2 to input $\overline{K1}$ $\overline{K2}$ $\overline{K3}$

Jumper position

Position	Transmitter power
	LOW
	LOW
	MIDDLE
	HIGH

Dimensions

