H8 series
M8 high frequency DC

features

- **Very small dimensions: M8 housing**
- **High switching frequency: 50 kHz**
- **Completely amplified**
- **IP67 protection degree**
- **Strong stainless steel housing**
- **Approvals: CE**



web contents

- **Application notes**
- **Photos**
- **Catalogue / Manuals**

code description

H8 E / 1

series	H8	M8 miniaturized through-beam
function	E	Emitter
	R	Receiver
version	1	Standard version

available models

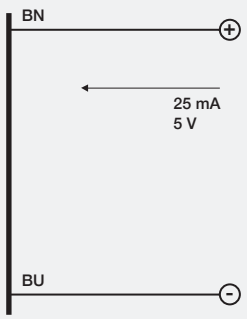
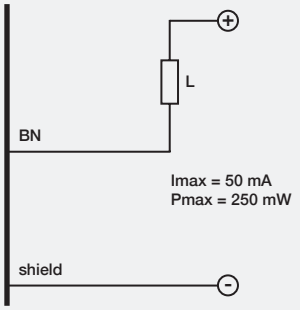
model	housing	distance (mm)	exit	note	model
emitter	stainless steel	80	cable	5 Vdc - 25 mA	H8E/1
receiver				Imax = 50 mA Pmax = 250 mW	H8R/1

technical specification

through-beam models

	H8
	
nominal sensing distance	80 mm
emission	infrared (880 nm)
minimum detectable object	-
repeatability	-
supply voltage	5 Vdc (E1), 30 Vdc max R1
ripple	≤ 1 %
no-load supply current	25 mA (E1)
load current (nominal)	≥ 2,5 mA
load current (maximum)	≤ 50 mA, 250 mW
leakage current	-
voltage drop	≤ 0.2 V @ 2.5 mA
output type	open collector
switching frequency	50 kHz
power on delay	-
power supply protections	-
EMC	in conformity with the EMC Directive according to EN 60947-5-2
output protection	-
operating temperature range	- 25°C...+ 70°C (without freeze)
external light interference	150 lux (incandescent lamp)
protection degree	IP67 (EN60529)
LEDs	-
housing materials	stainless steel
optic materials	plastic
weight	63 g

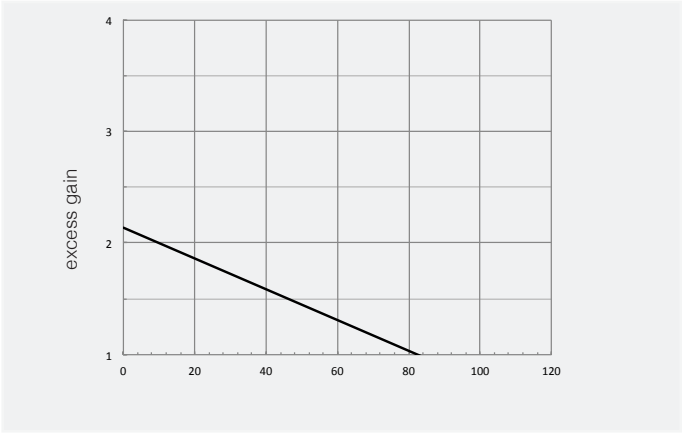
electrical diagrams of the connections

H8E/1 emitter	H8R/1 receiver
	

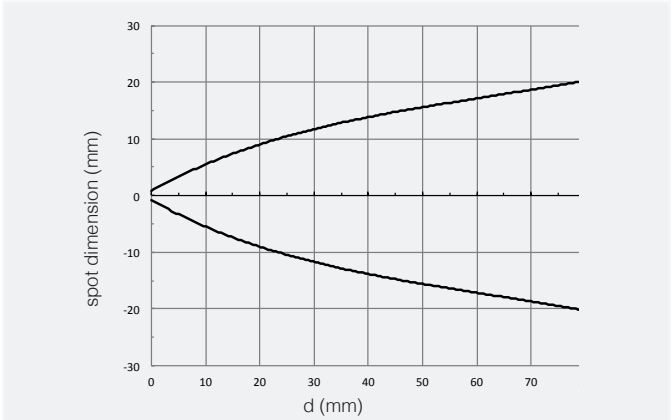
BN	brown
BU	blue
BK	black
WH	white
PK	pink
GY	gray

response diagram

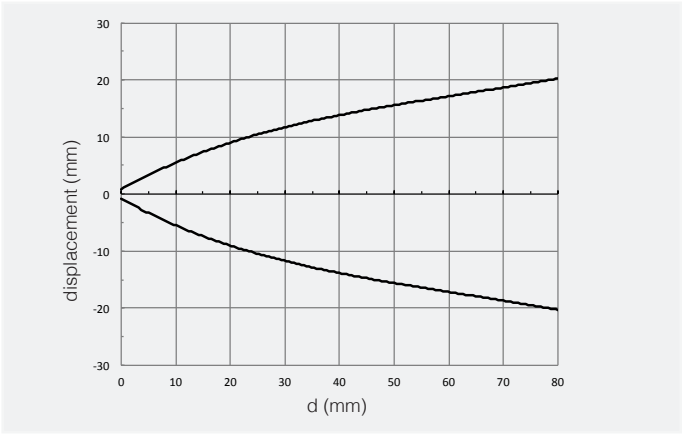
H8E/1, H8R/1 excess gain



H8E/1, H8R/1 spot dimension

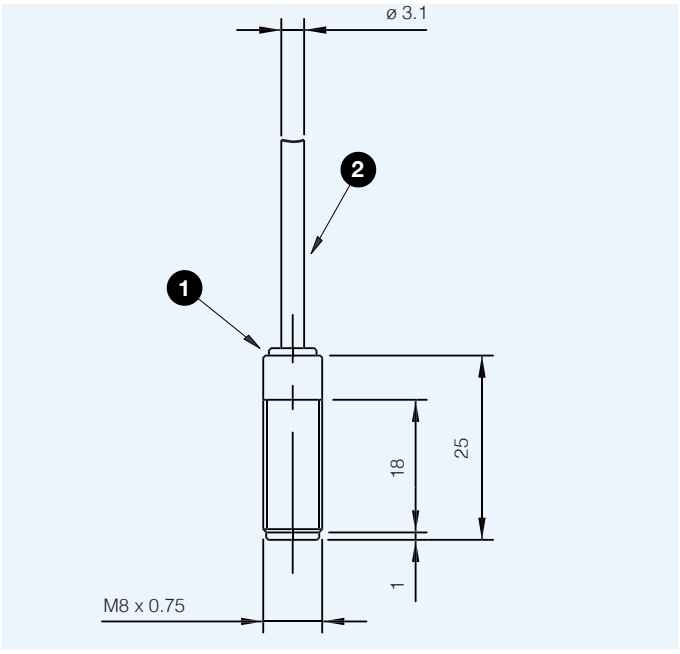


H8E/1, H8R/1 parallel displacement



dimensions (mm)

H8*/**



1 axial cable exit

2 Ø 3.1 mm, PVC, 2 m

dimensions (mm)

accessories included in all metallic models

