



HE series

M8 miniaturized through-beam
sensors DC



M8 through-beam
sensors DC

features

- M8 through beam models with high switching frequency
- LED status indicator for all models
- Complete protection against electrical damages
- IP67 protection degree
- Stainless steel housing
- Supply voltage 10...30 Vdc
- Approvals: CE



web contents



- Application notes
- Photos
- Catalogue / Manuals



code description

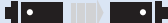
	HE	E	/	0	0	-	3	A
series	HE	M8 high switching frequency through beam sensors						
output	E	Emitter						
	R	Receiver						
output state	0	Emitter						
	A	NO output receiver						
output logic	C	NC output receiver						
	0	Emitter						
	P	PNP receiver						
distance	N	NPN receiver						
	3	Models with 10 kHz, 1 m sensing distance						
connect.	4	Models with 1 kHz, 2 m sensing distance						
	A	Cable exit 2 m						
	F	M8 plug cable exit						

available models

model	distance (m)	switching frequency (kHz)	exit	PNP NO	NPN NO	PNP NC	NPN NC
emitter	1	10	cable	HEE/00-3A			
			M8	HEE/00-3F			
receiver			cable	HER/AP-3A	HER/AN-3A	HER/CP-3A	HER/CN-3A
			M8	HER/AP-3F	HER/AN-3F	HER/CP-3F	HER/CN-3F
emitter	2	1	cable	HEE/00-4A			
			M8	HEE/00-4F			
receiver			cable	HER/AP-4A	HER/AN-4A	HER/CP-4A	HER/CN-4A
			M8	HER/AP-4F	HER/AN-4F	HER/CP-4F	HER/CN-4F

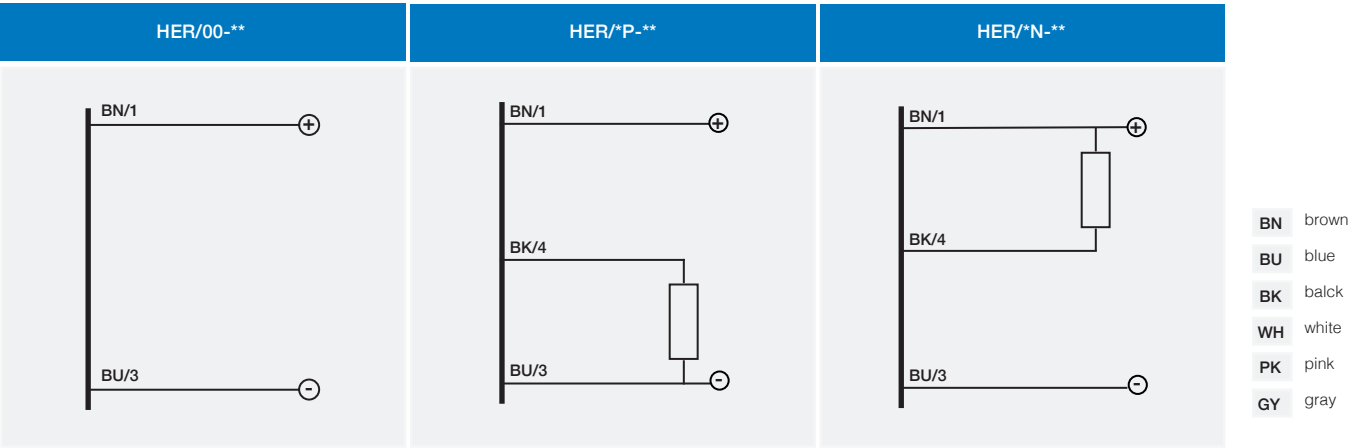
technical specification

through-beam models

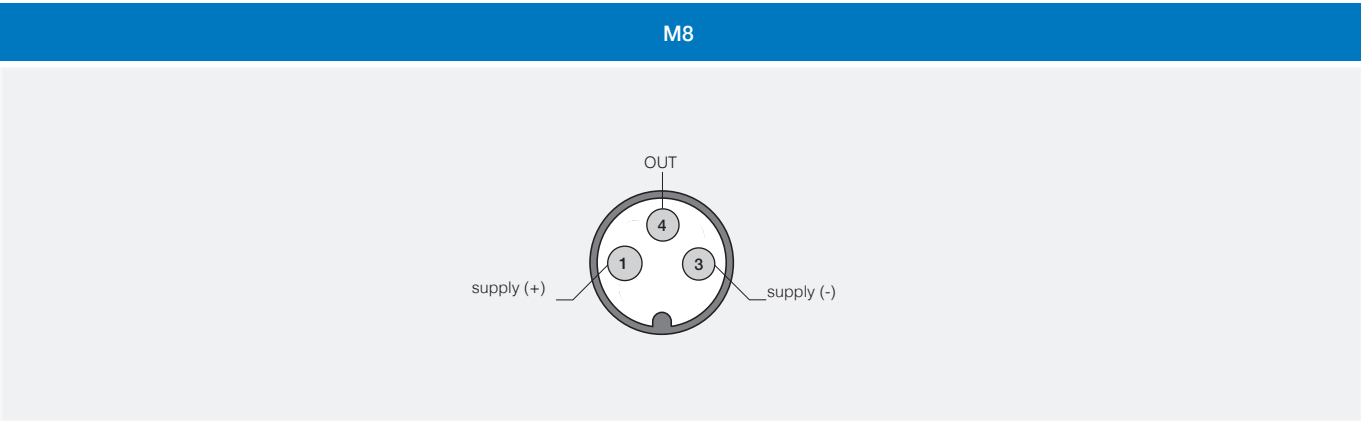
	HEE/**-3*	HER/**-3*	HEE/**-4*	HER/**-4*
				
nominal sensing distance Sn	1 m (EG = 2)		2 m (EG = 2)	
emission	infrared (880 nm)	-	infrared (880 nm)	-
hysteresis	≤ 10 %			
repeatability	10 %			
operating voltage	10...30 Vdc, 30 Vdc max			
ripple	≤ 10 %			
no-load supply current	≤ 45 mA			
load current	≤ 100 mA			
leakage current	10 µA			
output voltage drop	≤ 2 V			
output type	-	NPN or PNP NO or NC	-	NPN or PNP NO or NC
switching frequency	10 kHz		1 kHz	
power on delay	-	≤ 100 ms	-	≤ 100 ms
power supply protections	polarity reversal, impulsive overvoltages			
EMC	in conformity with the EMC Directive according to EN 60947-5-2			
output protection	short circuit (autoreset)			
temperature range	- 25°C...+ 50°C			
temperature drift	≤ 10 %			
external light interference	3,000 lux (incandescent lamp), 5,000 lux (sunlight)			
protection degree	IP67 (EN60529) ⁽¹⁾			
LEDs	yellow (supply)	yellow (output active)	yellow (supply)	yellow (output active)
housing material	stainless steel			
optic material	plastic			
weight	15 g connector / 40 g cable			

⁽¹⁾ Protection guaranteed only with plug cable well mounted

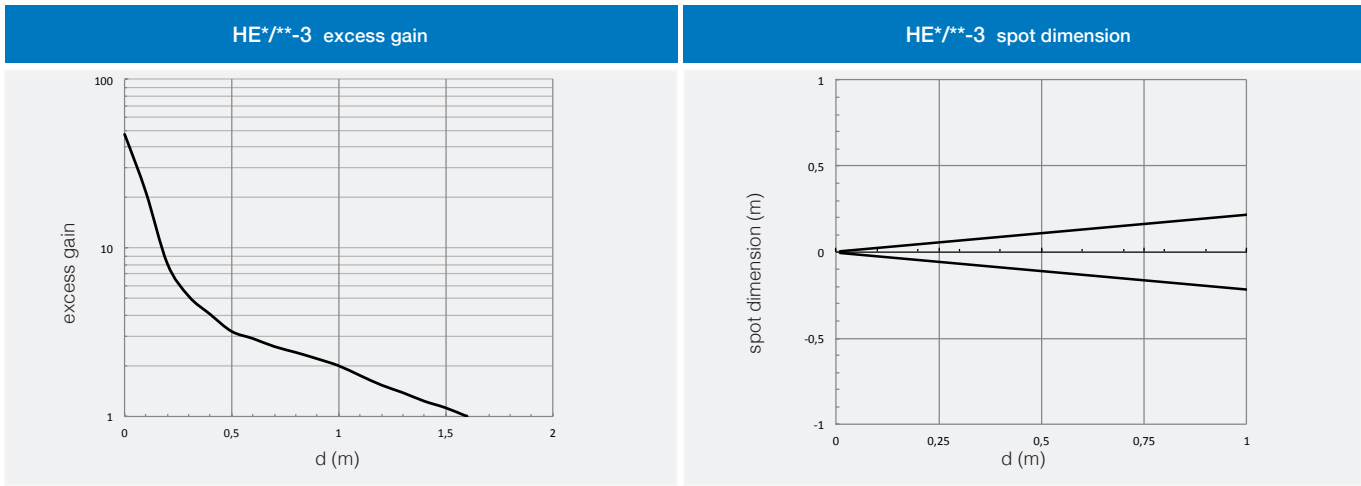
electrical diagrams of the connections



plug



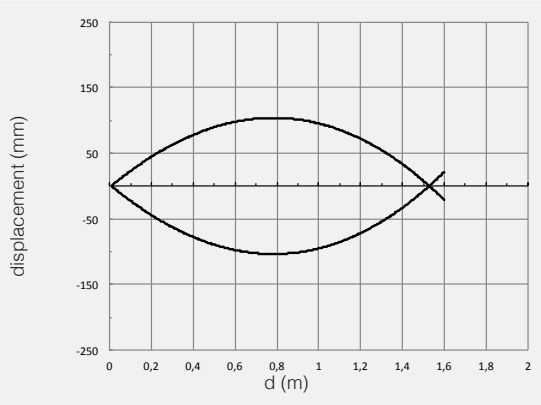
response diagram



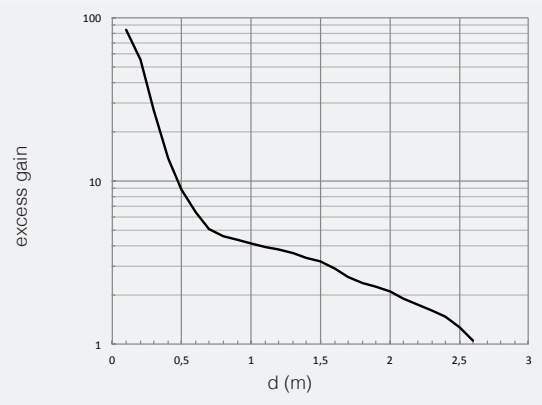


response diagram

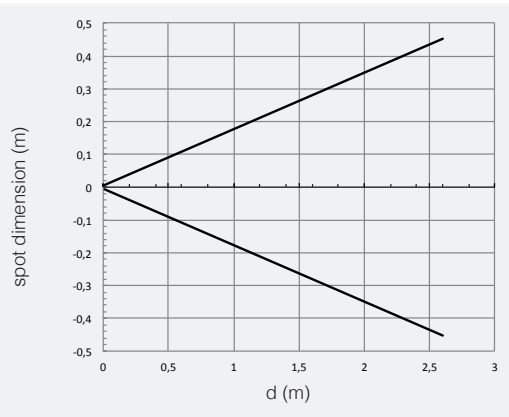
HE*/**-3 parallel displacement



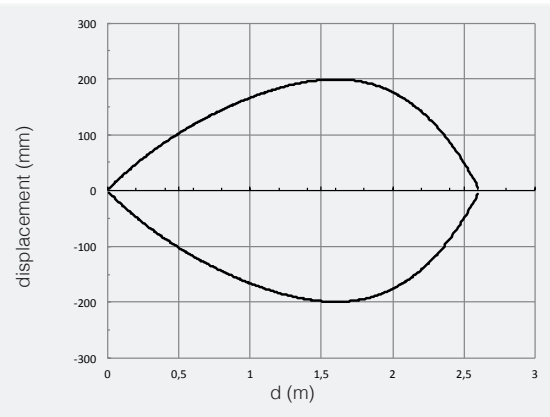
HE*/**-4 excess gain



HE*/**-4 spot dimension

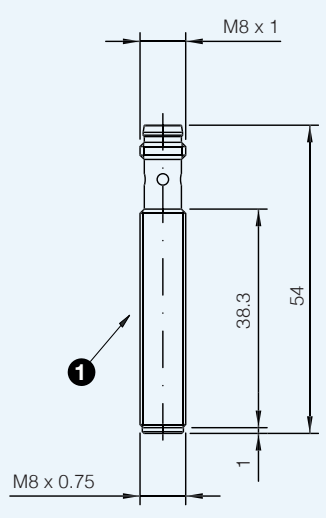


HE*/**-4 parallel displacement

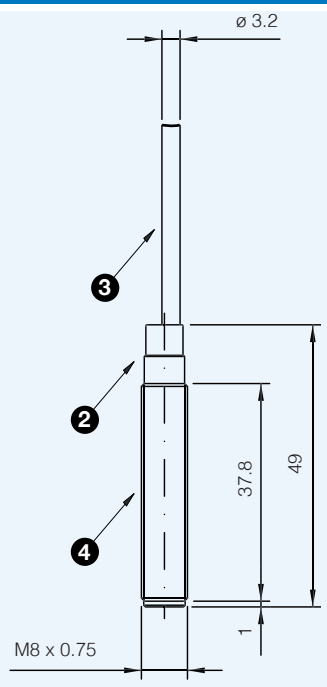


dimensions (mm)

HE*/**-*F

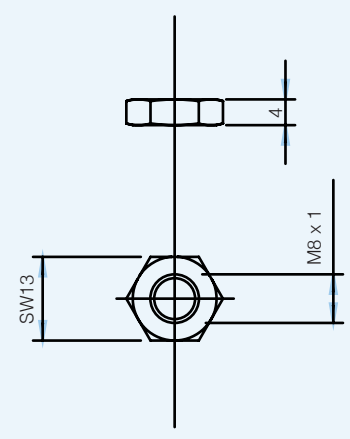


HE*/**-*A



dimensions (mm)

accessories included



metallic nut (2 x)

- 1 cylindrical threaded housing exit F
- 2 plastic cable exit

- 3 cable $\varnothing 3,1$
- 4 cylindrical threaded housing exit A