



# DG series

Ø 10 mm miniaturized through-beam sensors DG series



Cylindrical  
Ø 10 mm

## features

- Ø 10 mm plastic housing 41 mm length
- Ø 13 mm hole irreversible spring latch fixing
- LED status indicator receiver only
- Complete protection against electrical damages
- IP67 protection degree
- Nominal sensing distance (Sn): 2 m ExG. = 4
- Supply voltage 15...37 Vdc (10...30 Vdc for EA version)
- Approvals: CE



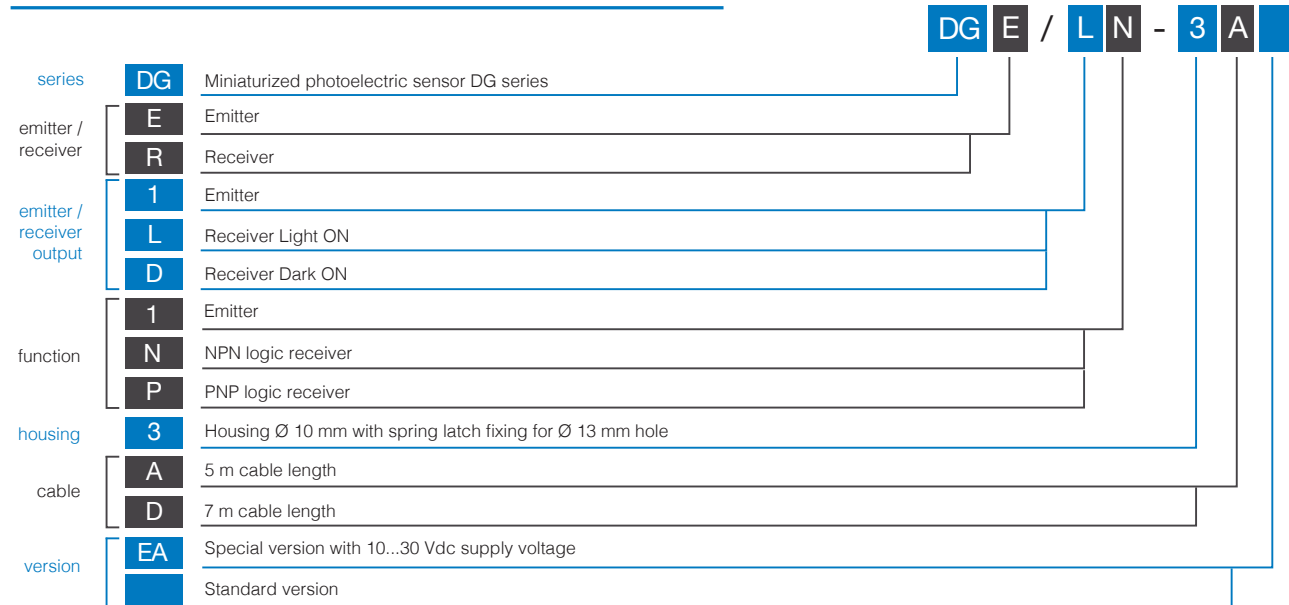
## web contents



- Application notes
- Photos
- Catalogue / Manuals



## code description





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## available models

model	distance (m)	supply voltage	cable (m)	PNP NO	NPN NO	PNP NC	NPN NC
emitter	-	15...37 Vdc	5	DGE/11-3A			
			7	DGE/11-3D			
		10...30 Vdc	5	DGE/11-3AEA			
			7	DGE/11-3DEA			
receiver	2	15...37 Vdc	5	DGR/DP-3A	DGR/LP-3A	DGR/DN-3A	DGR/LN-3A
			7	DGR/DP-3D	DGR/LP-3D	DGR/DN-3D	DGR/LN-3D
		10...30 Vdc	5	DGR/DP-3AEA	-	-	-
			7	DGR/DP-3DEA	-	-	-

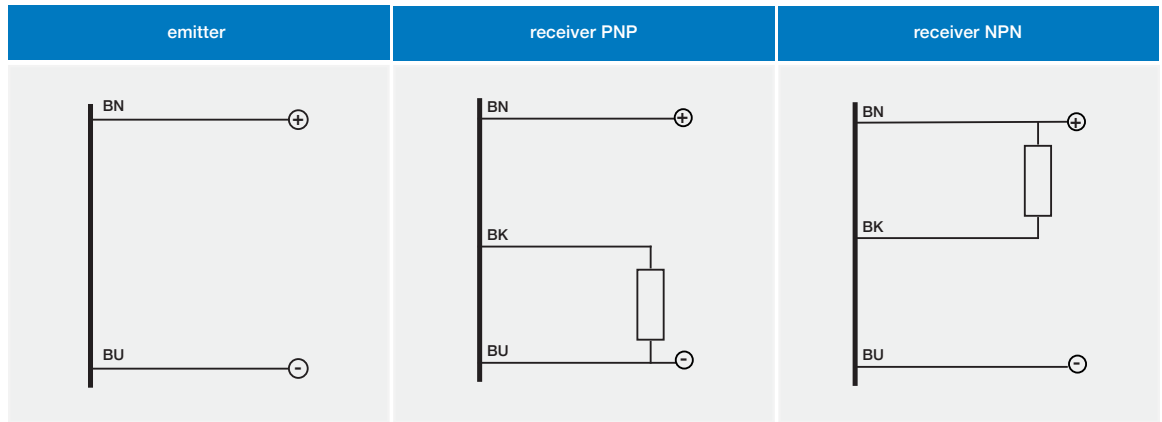
## technical specification

### through-beam models

	DGE/11-**	DGR/**-**	DG*/**-**EA
nominal sensing distance	2 m (EG = 4)		
emission	infrared (880 nm)	-	-
supply operating voltage	15...37 Vdc		10...30 Vdc
ripple	10 %		
no-load supply current	≤ 10 mA		
load output current	-	30 mA	
leakage current	-	10 µA	
output voltage drop	-	2 V with = 30 mA	
output type	-	NPN or PNP LO or DO	
switching frequency	-	40 Hz	
power on delay	-	100 ms	
power supply protections	polarity reversal, pulse overvoltage		
EMC	in conformity with the EMC Directive according to EN 60947-5-2		
output protection	-	short circuit	
operating temperature range	- 25°C...+ 70°C		
temperature drift	≤ 10 %		
protection degree	IP67 (EN60529) <sup>(1)</sup>		
external light interference	-	20,000 lux	
LEDs	supply	output status	
housing material	PC		

<sup>(1)</sup> Protection guaranteed only with plug cable well mounted

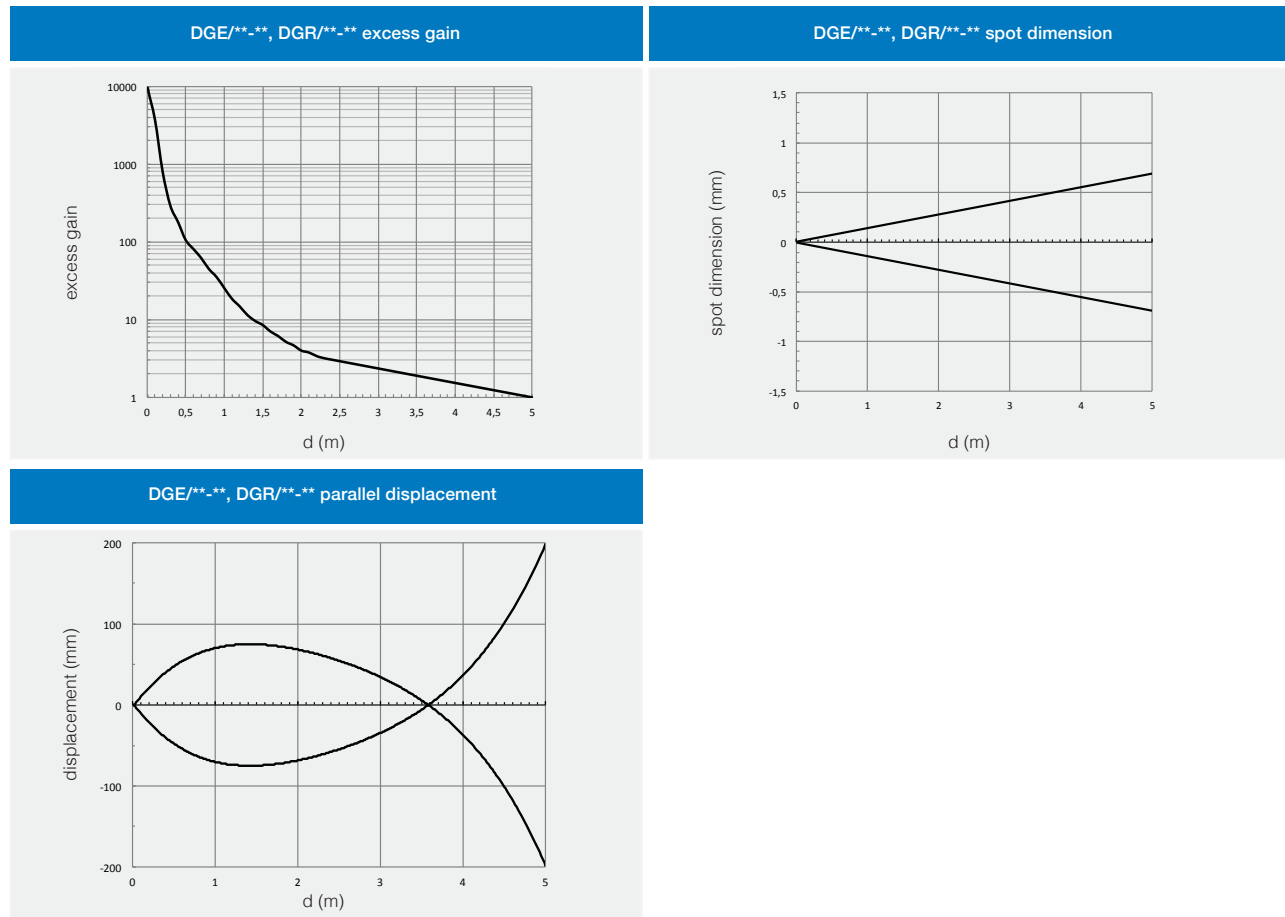
# electrical diagrams of the connections



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

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# response diagram





DG\*/\*\*-\*

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