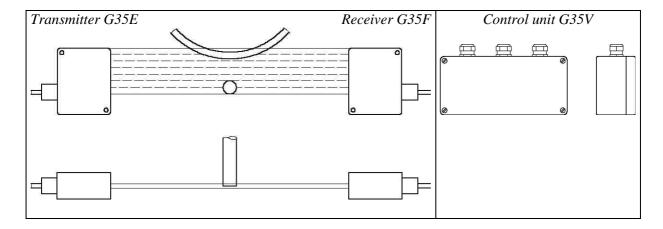


Light barriers G35



Light barriers in the G35EF range are principally used in length measurement systems, but can also be used as light curtains that detect objects interrupting the beams. The G35EF has a multiple photocell technique enabling an array of beams to be formed.

The output switches when part of the light beam array is interrupted by an object with a size corresponding to the specified *resolution* (please see table below).

The response time when light beams are interrupted or established is $100\ \mu s$.

The accuracy +/- S and repeatability W are listed below.

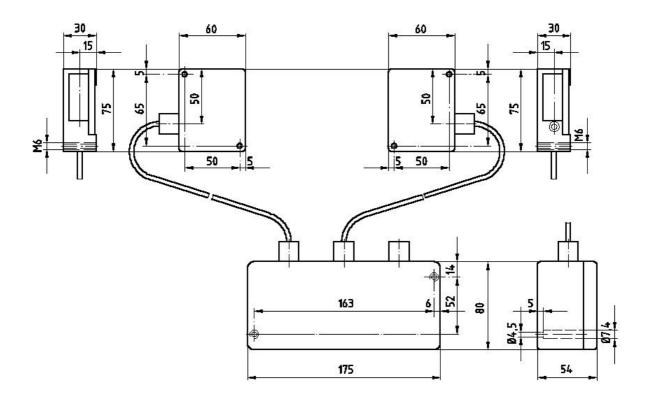
The control unit G35V1 or G35V2 provides the necessary supplies for the photoelectric system, and also the switched output circuit.

Available versions

	G35EF1	G35EF2	G35EF3	G35EF4	G35EF5
Light beam array height	51.5 mm	51.5 mm	40 mm	65 mm	51.5 mm
Max. separation G35EG35F	200 mm	350 mm	200 mm	200 mm	700 mm
Resolution	10 mm	10 mm	8 mm	12 mm	10 mm
Accuracy S	0.5 mm	0.8 mm	0.5 mm	0.5 mm	0.8 mm
Repeatability W	0.1 mm	0.2 mm	0.1 mm	0.1 mm	0.2 mm
Size	G35E, G35F: 60*75*30 mm				
Permitted ambient temperature	0°C bis 50°C				
Protection	IP65				

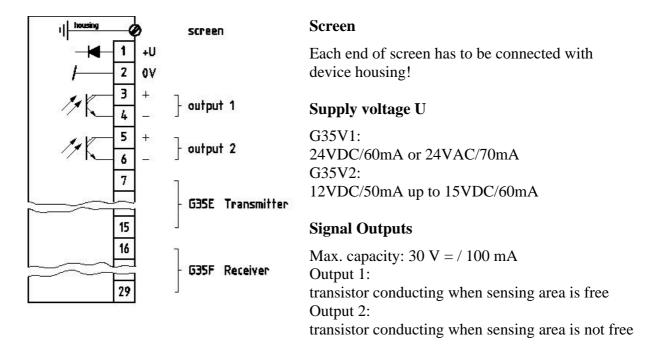
	G35V1	G35V2	
Rating	24VDC/60mA or	12VDC/50mA up to	
	24VAC/70mA	15VDC/60mA	
Outputs	Transistors, max. capacity: 30VDC/100mA		
Size	175*80*54 mm		
Permitted ambient temperature	0°C bis 50°C		
Protection	IP65		





Connections on control unit G35V1(2)

Screw connections can be accessed when the housing is removed. Max. cross-sectional area: 1.5 mm²; stripping length of wire: 6 mm.



The product specifications are based on theoretical and experimental data, and we also have a policy of continuous improvement in performance. Thus although we attempt to provide equipment which in all respects meets specifications, this cannot be ensured in all cases without written confirmation from OPTRONIC AG.