

Mechanical features				
<b>Maximum load</b>		$L_A$	$L_{R0}$	$L_{R90}$
Information with safety factor	Load direction			
Examples of calculation → see operating instruction	$I_1 = 49$ $I_1 = 79$	1500 N 750 N	1000 N 500 N	1000 N 500 N
<b>Fixing</b>	from the back, 7 x threads M5, 6 mm deep			
<b>Recommended torque</b>	5 Nm (Screws M5)			
<b>Protection class</b>	IP67 / IP69K (Mind the cable conduit!)	acc. to EN 60529		
<b>Switching principle, contact opening</b>	Slow-action contacts force-fitted, with positive opening	acc. to IEC 60947-5-1, K		
<b>Contact material</b>	Silver alloy			
<b>Operating travel diagram (scheme)</b>	The switching points are adjustable up to 4° in direction of 0°. see operating instruction			
<b>Maximum operating frequency</b>	600 operating cycles / hour	acc. to IEC 60947-5-1,		
<b>Mechanical life span</b>	10 <sup>6</sup> operating cycles	one operating cycle includes one opening and one closing action		
<b>Actuating speed</b>	min. 2° / second, max. 90° / second			

Electrical features / Safety features		
<b>Utilization category</b>	AC 15: 24 Vac / 2A / DC 13: 24 Vdc / 2A (connector plug) AC 15: 250 Vac / 4A / DC 13: 250 Vdc / 0,3 A (cable)	acc. to EN 60947-5-1
<b>Contacts, termination</b>	8-pole connector M12 or cable with 2 m or 5 m length	
<b>Pin and cable assignment</b>		1 - green-yellow 3 - black      4 - black-white 5 - red        6 - red-white 7 - brown      8 - blue
<b>Type of cable</b>	Typ N 7x0,5 mm <sup>2</sup> , jacket PVC H05VV-F	acc. to IEC 60332-1-2 et seqq.
<b>Short-circuit current</b>	1000 A	acc. to EN 60947-5-1
<b>Rated insulation voltage</b>	30 V AC / 36 V DC (connector plug) / 250 Vac (cable)	
<b>Short-circuit protection</b>	2 A, 500 V, Typ gG (connector plug) / 6 A, 500 V, Typ gG (cable)	
<b>Ambient temperature</b>	- 25 °C up to + 80 °C	
<b>Degree of pollution, external</b>	3	acc. to EN 60947-5-1
<b>Mission time (T<sub>M</sub>)</b>	20 years	acc. to EN ISO 13849-1
<b>Number of cycles (B10 d)</b>	5 000 000	acc. to EN 61820-2

Approvals, Conformities, Applicability		
Low-voltage switchgear and controlgear CE declaration IMQ: CA02.03746 UL: E 131787		EN 60947-1/2007 EN 60947-1-5 : 2004 + A1/2009
<b>Safety applications</b>	up to SIL 3 / PL e	acc. to EN ISO 13849-1

Other important details and hints are given in the operating instruction for GN 139.1 hinges which are included with every hinge and which are also available as PDF downloads from „www.ganter-griff.com“ under „Service“.

The hinges with safety switch must be mounted and commissioned by qualified technical personnel in compliance with the details given in the operating instructions and with the national and international rules and regulations and the applicable standards. Otto Ganter GmbH & Co. KG will assume no statutory liability for missing or incorrect information and for any consequences arising therefrom.