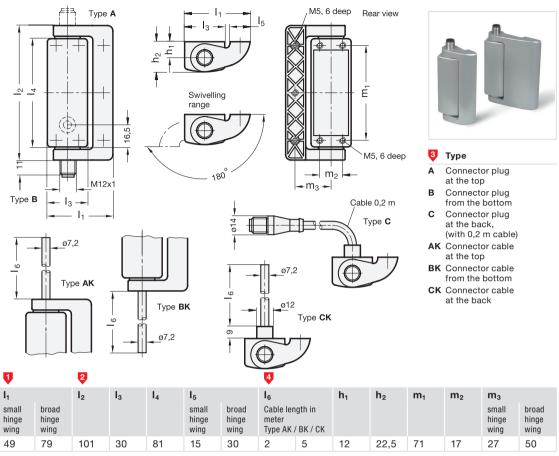
with switch

without switch





Specification

- · Zinc die casting plastic coated silver metallic
- Pin Stainless Steel AISI 303
- RoHS compliant

Accessories

- Cable with connection coupling 8-pin, 5 and/or 10 meter long:
 - GN 330-M12x1-8-G-5
 - GN 330-M12x1-8-G-10
- Mounting plates GN 139.3 / GN 139.4

On request

- Hinges with operation angle > 0°
- Hinges with other contact terminations

Information

Hinges GN 139.1 with integrated safety switches have been designed for monitoring doors and covers of machines and plants. Opening the door will activate the switch contacts which, in turn, will then e.g. interrupt a protective circuit via break contact (NC) and at the same time signal the door opening by closing a normally open contact element (NO). The contact blocks are fitted with positive opening slow-action contacts, i.e. they will definitely be separated when activated and have no hysteresis. The angle at which the switching points are reached are adjustable (see contact travel diagram).

Together with the integrated contact blocks, the hinges are a compact, easy to mount unit with an attractive design. The mounting from the back make the hinge more tamper-proof.

Hinges GN 139.2 without switching function act as additional hinges e.g. for larger doors or gates where several hinges are required.

Hinge with safety switch	1 I ₁
1 2 3 4	2 I ₂
	3 Type
GN 139.1-49-101-AK- 5	4 I ₆
Hinge without safety switch	1 11
GN 139.2-79-101	2 I ₂

Approvals, Conformities, Applicability Low-voltage switchgear and controlgear

CF declaration

IMQ: CA02.03746



Mechanical features					
Maximum load		L_A	L_{R0}	L_{R90}	
Information with safety factor		A I I I I I	+=		
Examples of calculation		 	+++++	∜	
→ see operating instruction	I ₁ = 49	1500 N	1000 N	1000 N	
	I ₁ = 79	750 N	500 N	500 N	
Fixing	from the back, 7 x threads M5, 6 mm deep				
Recommended torque	5 Nm (Screws M5)				
Protection class	IP67 (Type A / B, connector on the housing) acc. to EN 60529 IP69K (Type AK / BK / C / CK, with connector cable)				
Switching principle, contact opening	Slow-action contacts force-fitted, with positive opening			acc. to IEC 60947-5-1, K	
Contact material	Silver alloy				
Operating travel diagram (scheme)	The switching up to 4° in di		0° 7′	° ⊕ 11° 180° NC NO 9°	
Maximum operating frequency	1200 / hour	g msauchon		acc. to IEC 60947-5-1	
Mechanical life span	10 ⁶ operating	ı cycles		acc. to IEC 60947-5-1	
Actuating speed	1 0	ond, max. 90° / second		acc. to 120 00947-0-1	

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

UL: E 131787 up to SIL 3 / PL e acc. to EN ISO 13849-1 Safety applications Other important details and hints are given in the operating instructions 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.

EN 60947-1/2007

A1/2009

EN 60947-1-5: 2004 +