

3 Coding

- SH** Bores for countersunk screw, without switch
- SL** Bores for countersunk screw, switch left
- SR** Bores for countersunk screw, switch right

4 Type

- AS** Connector plug at the top
- CS** Connector plug at the back
- AK** Cable at the top
- CK** Cable from the back

1		2		5										
l_1	l_2	GN 239.4	GN 239.3	h_1	h_2	h_3	h_4	l_3	l_4	l_5	l_6 Cable length in meter, type AK / CK	m_1	m_2	
70	53		60	16	8	16	14,5	110	51,5	22,5	2	5	45	34

Specification

- Plastic (Polyamide PA-HP)
 - Glass fiber reinforced
 - Black, matte finish
- Pin
 - Stainless steel AISI 303
- *Plastic Characteristics* → Page 2158
- *Stainless Steel Characteristics* → Page 2166
- **RoHS**

Accessory

- Cable with Connector Coupling → Page 1412
 - 8-pole, 5 or 10 meter long:
 - GN 330-M12x1-8-G-5
 - GN 330-M12x1-8-G-10

On request

- Hinge with operation angle > 0°

Information

Hinges GN 239.4 with integrated two-way switch are suitable for detecting the status of doors, covers and guards on machines and equipment. Opening the door will activate the switching contact, allowing changes in the door status to be detected electrically depending on the wiring of the contacts (NC or NO).

The hinges with their integrated two-way switch are a compact, tamper-proof and easy to install unit, featuring an ultrasound-welded enclosure. The GN 239.3 hinges without switch have the same design and serve as auxiliary hinge, e.g. for large doors requiring several hinges.

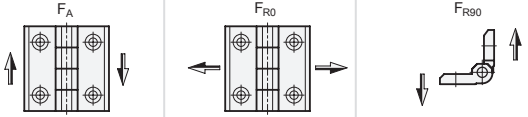
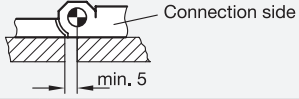
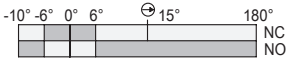
Operating instructions containing other important technical information are included with every hinge.

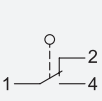
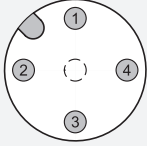
see also...

- *List of Hinge Types* → Page 1284 ff.
- *IP-Protection Classes* → Page 2153

How to order (With switch)	
1	l_1
2	l_2
3	Coding
4	Type
5	l_6
GN 239.4-70-53-SL-AK-5	

How to order (Without switch)	
1	l_1
2	l_2
3	Coding
GN 239.3-70-60-SH	

Mechanical features		
Maximum load Information without safety factor Examples of calculation → see operating instruction	Load direction	
	F max.	2100 N 2800 N 1300 N
Fixing	Types SH, SL und SR with countersunk for countersunk screws e.g. DIN 7991	Mounting information  Connection side min. 5
Recommended torque	5 Nm (Screws M6)	
Protection class	IP67	acc. to EN 60529
Switching principle, contact opening	Changeover contact, with positive opening	acc. to IEC 60947-5-1
Contact material	Silver alloy Ag 90 Ni 10	
Operating travel diagram (scheme)	The switching points are fix at 6°. By reaching the lifespan, it can rise up to 9°. → see operating instruction	
Maximum operating frequency	1200 / hour	
Mechanical life span	10 ⁶ operating cycles	acc. to IEC 60947-5-1
Actuating speed	min. 2° / second, max. 90° / second	

Electrical and safety features		
Utilization category	DC 13: 24 V DC / 4 A or 127 V DC / 0,3 A AC 15: 220 V AC / 4 A or 440 V AC / 3 A	acc. to EN 60947-5-2 acc. to EN 60947-5-1
Contact termination 4-pole plug M12 or cable with 2 m or 5 m length		1 - blue 2 - gray 4 - black
Pin and cable assignment		
Type of cable	UL/CSA STYLE 2587 3X AWG 22	
Short-circuit current	1000 A	
Rated insulation voltage	250 V	
Short-circuit protection	6 A, 500 V, Typ gl	
Ambient temperature	- 20 ° C ... + 80 ° C	
Degree of pollution, external	3	
Mission time (T_M)	20 years	
Number of cycles (B10 d)	2 000 000	

Approvals, Conformities		
Low-voltage switchgear and controlgear		EN 60947-1-5 : 2003 +
CE declaration		A1/2009

Other important details and hints are given in the operating instructions for GN 239.4 hinges which are included with every hinge and which are also available as PDF downloads from „www.ganternorm.com“ under ‚Service‘.

The hinges with 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.