







3 Туре

- Connector plug at the top
- Connector plug at the bottom
- С Connector plug at the backside (with 0.2 m cable)
- CK Cable at the backside

Metric table

1	7 2				4				Dimensions in: millimeters - inches			
I ₁	l ₂	l ₃	14	I ₅	I ₆ Cable length in meters		h ₁	h ₂	m ₁	m ₂	m ₃	m ₄
76 2.99	126 <i>4.</i> 96	40 1.57	99.4 3.91	22 0.87	2	5	15.5 <i>0.61</i>	31.5 1.24	88 3.46	29 1.14	41 1.61	9 0.35

Specification

- Body Stainless steel precision casting AISI 316L Polished, $R_a < 0.8 \mu m$
- Stainless steel AISI 316L
- Stainless Steel Characteristics → page 2143
- RoHS compliant

Accessory

- Cables with connector coupling → page 1436 8-pole, 5 or 10 meters long:
- GN 330-M12x1-8-G-5
- GN 330-M12x1-8-G-10

On request

- Hinges with operating angle > 0°
- · Hinges with other contact loadings

Information

GN 139.5 hinges with integrated safety switch are designed for monitoring doors and covers of machines and in manufacturing 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.

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.

The compact construction combines safety with an attractive design. The hinges are tamper-proof because of the covered mounting from the backside.

GN 139.6 hinges without switch are designed to be used in conjunction with GN 139.5 hinges with integrated safety switch, in applications with larger doors or gates where several hinges are required.

How to order (With integrated safety switch)	1	Width I₁			
	2	Length I ₂			
GN 139.5-76-126-CK-5		Туре			
		Cable length I ₆			
How to order (Without switch)		Width I ₁			



3.1

Mechanical features						
Maximum load		F _A	F _{R0}	F _{R90}		
Information with safety factor	Load direction			↑ ↓		
Examples of calculation	_	2000 N	2000 N	2000 N		
→ see operating instruction	F max.	449.62 lbf	449.62 lbf	449.62 lbf		
Assembly	From the backside, 10 x thread M6, 8 mm deep					
Recommended torque 10 Nm (Screws M6)						
Protection class	IP67 / IP69K (Mind the cable conduit!)		acc. to EN 60529			
Switching principle, contact opening	Slow-action contacts, force- with positive opening	ce-fitted, acc. to IEC 60947-5-1				
Contact material	Silver alloy					
Operating travel diagram (scheme)	The switching points are adjup to 2° in direction of 0°. → see operating instruction		0° 2,5° ⊕ 7° 180° NC NO			
Maximum operating frequency	600 operating cycles / hour		acc. to IEC 60947-5-1, one operating cycle includes one opening and one			
Mechanical life cycle	10 ⁶ operating cycles					
Actuating speed	min. 2° / second, max. 90° /	second	closing action			

Electrical features / Safety for	eatures					
Utilization category	AC 15: 24 V AC / 2A / DC 13: 24 V DC / 2A (connector plug) AC 15: 250 V AC / 3A / DC 13: 250 V DC / 0.3 A (cable)	acc. to EN 60947-5-1				
Contact, termination 8-pole connector M12 or 9 wire cable with 2 m or 5 m length Pin and cable assignment	3 4 2 8 6 7 4 8 3 4 5	1 - black 2 - black-white 3 - red 4 - red-white 5 - brown 6 - blue 7 - purple 8 - purple-white PE - yellow-green (only type CK)				
Type of cable	9x0.34 mm², PVC H05VV-F, black	acc. to IEC 60332-1				
Short-circuit current	1000 A	acc. to EN 60947-5-1				
Rated insulation voltage 30 V AC / 36 V DC (connector plug) / 250 V AC (cable)						
Short-circuit protection	2 A, 500 V, Type gG (connector plug) / 3 A, 500 V, Type gG (cable)					
Ambient temperature	-13 °F up to +176 °F (- 25 °C up to + 80 °C)					
Degree of pollution, external	3	acc. to EN 60947-5-1				
Safety parameters	B10: 1 000 000, B10 d: 5 000 000, B10 / B10 d: 20%	acc. to EN ISO 13849-1				

Approvals, conformities, applicability						
Low-voltage switchgear and control- gear CE declaration EAC- and UL-certified	C€	ERE	c UL us	EN 60947-1/2007 EN 60947-1-5 : 2004 + A1/2009		
Safety applications	until SIL 3 / PL e			acc. to EN ISO 13849-1		

Other important details and hints are given in the operating instruction for GN 139.5 hinges which are included with every hinge and they are also available as PDF downloads from "www.jwwinco.com" under "Service".

The hinges with integrated 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 / international rules and regulations along with the applicable standards. JW Winco will assume no statutory liability for missing or incorrect information and for any consequences arising therefrom.