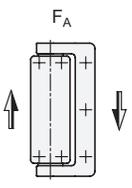
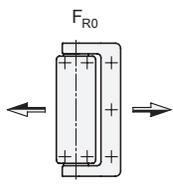
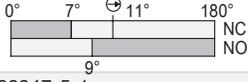
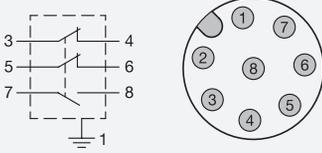


Mechanical features			
Maximum load Information with safety factor	Load direction		
			
	$l_1 = 49 \text{ mm}$	1500 N <i>337.21 lbf</i>	1000 N <i>224.81 lbf</i>
Examples of calculation → see operating instruction	$l_1 = 79 \text{ mm}$	750 N <i>168.61 lbf</i>	500 N <i>112.40 lbf</i>
Assembly	From the backside, 7 x thread M5, 6 mm deep		
Recommended torque	5 Nm (Screws M5)		
Protection class	IP67 / IP69K (Mind the cable conduit!)	acc. to EN 60529	
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 points are adjustable up to 4° in direction of 0°. → see operating instruction		
Maximum operating frequency	600 operating cycles / hour	acc. to IEC 60947-5-1,	
Mechanical life span	10 ⁶ operating cycles	one operating cycle includes one opening and one closing action	
Actuating speed	min. 2° / second, max. 90° / second		

Electrical features / Safety features		
Utilization category	AC 15: 24 V AC / 2A / DC 13: 24 V DC / 2A (connector plug) AC 15: 250 V AC / 4A / DC 13: 250 V DC / 0.3 A (cable)	acc. to EN 60947-5-1
Contact, termination 8-pole connector M12 or cable with 2 m or 5 m length		1 - green-yellow 3 - black 5 - red 7 - brown 4 - black-white 6 - red-white 8 - blue
Pin and cable assignment		
Type of cable	7x0.5 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 V AC (cable)	
Short-circuit protection	2 A, 500 V, Type gG (connector plug) / 6 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
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

Approvals, conformities, applicability		
Low-voltage switchgear and control-gear CE declaration IMQ: CA02.03746 UL: E 131787		EN 60947-1/2007 EN 60947-1-5 : 2004 + A1/2009
Safety applications	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 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.