



**J.W. WINCO,<sup>®</sup>**  
**INC.**



**Safety Switch Hinges  
and Accessories**





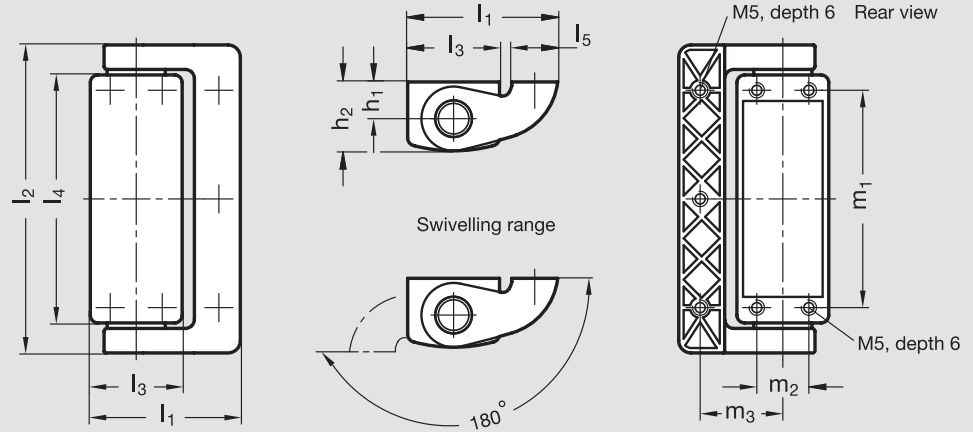


# GN 139.2 | Hinges

Without Safety Switch • Zinc Die-Cast • Metric Size



RoHS Compliant



## Hinge body

Zinc die-cast, silver metallic powder coated finish

## Hinge pin

Stainless steel, European standard 1.4305 (American Standard 303 series)

Available with narrow hinge wing (left in photo) or broad hinge wing (right in photo)

GN 139.2 Hinges without Safety Switch are identical to GN 139.1, but they do not include the safety switch or connector plug.

The compact construction combines safety and attractive design.

Covered bolts on the back make the hinge particularly tamper-proof.

The broad hinge wing version has been designed for mounting on glass or polycarbonate doors.

For version with safety switch, see GN 139.1, page 3

For flat mounting plates, see GN 139.3, page 6.

For angled mounting plates, see GN 139.4, page 7.

## Narrow Hinge Wing Type

Dimensions in: millimeters (*inches*)

| Part Number  | $l_1$        | $l_2$         | $l_3$        | $l_4$        | $l_5$       | $h_1$       | $h_2$         | $m_1$        | $m_2$       | $m_3$        |
|--------------|--------------|---------------|--------------|--------------|-------------|-------------|---------------|--------------|-------------|--------------|
| 139.2-49-101 | 49<br>(1.93) | 101<br>(3.98) | 30<br>(1.18) | 81<br>(3.19) | 15<br>(.59) | 12<br>(.47) | 22.5<br>(.89) | 71<br>(2.80) | 17<br>(.67) | 27<br>(1.06) |

## Broad Hinge Wing Type

Dimensions in: millimeters (*inches*)

| Part Number  | $l_1$        | $l_2$         | $l_3$        | $l_4$        | $l_5$        | $h_1$       | $h_2$         | $m_1$        | $m_2$       | $m_3$        |
|--------------|--------------|---------------|--------------|--------------|--------------|-------------|---------------|--------------|-------------|--------------|
| 139.2-79-101 | 79<br>(3.11) | 101<br>(3.98) | 30<br>(1.18) | 81<br>(3.19) | 30<br>(1.18) | 12<br>(.47) | 22.5<br>(.89) | 71<br>(2.80) | 17<br>(.67) | 50<br>(1.97) |



## Mechanical features

|   |   |  |  |        |  |  |                          |  |  |        |  |  |
|---|---|--|--|--------|--|--|--------------------------|--|--|--------|--|--|
| <b>Maximum load</b><br>Information with safety factor<br><br>Examples of calculation<br>→ see operating instruction |   |  |  |        |  |  |                          |  |  |        |  |  |
|   | <b>I1 = 49</b>  |  |  | 1500 N |  |  | 1000 N                   |  |  | 1000 N |  |  |
|   | <b>I1 = 79</b>  |  |  | 750 N  |  |  | 500 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 (Type A / B, connector on the housing)<br>IP69K (Type C with connector cable)                  |  |  |        |  |  | acc. to EN 60529         |  |  |        |  |  |
| <b>Switching principle, contact opening</b>   | Slow-action contacts<br>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°.<br><br>→ see operating instruction |  |  |        |  |  |                          |  |  |        |  |  |
| <b>Maximum operating frequency</b>  | 1200 / hour   |  |  |        |  |  | acc. to IEC 60947-5-1    |  |  |        |  |  |
| <b>Mechanical life span</b>   | 10 <sup>6</sup> operating cycles  |  |  |        |  |  | acc. to IEC 60947-5-1    |  |  |        |  |  |
| <b>Actuating speed</b>  | min. 2° / second, max. 90° / second   |  |  |        |  |  |                          |  |  |        |  |  |

## Electrical features/Safety features

|  |  |  |                                |  |
|--|--|--|--------------------------------|--|
| <b>Utilization category</b>                        | DC 13: 24 Vdc / 2 A (with connector plug)<br>AC 15: 24 Vac / 2 A |  | acc. to EN 60947-5-1           |  |
| <b>Contact termination</b><br>8-pole connector M12 |  |  |                                |  |
| <b>Pin and cable assignment</b>                    |  |  |                                |  |
| <b>Type of cable</b>                               | Type N 7 x0,5 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  |  |                                |  |
| <b>Short-circuit protection</b>                    | 2 A, 500 V, Type gG  |  |                                |  |
| <b>Ambient temperature</b>                         | - 25 °C ... + 80 °C  |  |                                |  |
| <b>Degree of pollution, external</b>               | 3  |  | acc. to EN 60947-5-1           |  |
| <b>Mission time (TM)</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<br>CE declaration<br>IMQ: CA02.03746<br>UL: E 131787 |                    | EN 60947-1/2007<br>EN 60947-1-5 : 2004 +<br>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 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](http://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.

# GN 139.3 | Flat Mounting Plates

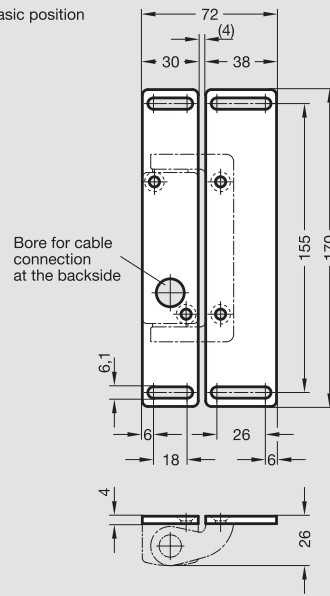
For GN 139.1 and GN 139.2 Hinges • Zinc Die-Cast • Metric Size



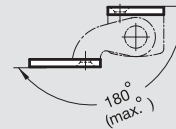
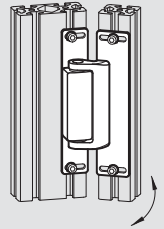
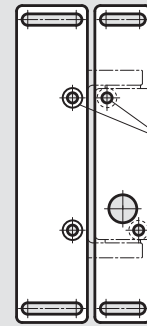
RoHS Compliant



asic position



180° swivelled



## Mounting plate

Zinc die-cast, silver metallic powder coated finish

GN 139.3 Flat Mounting Plates allow GN 139.1 and GN 139.2 hinges to be attached from the front.

For angled mounting plates, see GN 139.4, page 7.

The long slotted holes also permit attachment to profile systems.

Countersunk screws to assemble the hinges to the mounting plate are included.

Dimensions in: millimeters (*inches*)

| Part Number | length        |  |
|-------------|---------------|--|
| 139.3-170   | 170<br>(6.69) |  |

# GN 139.4 | Angled Mounting Plates

For GN 139.1 and GN 139.2 Hinges • Zinc Die-Cast • Metric Size

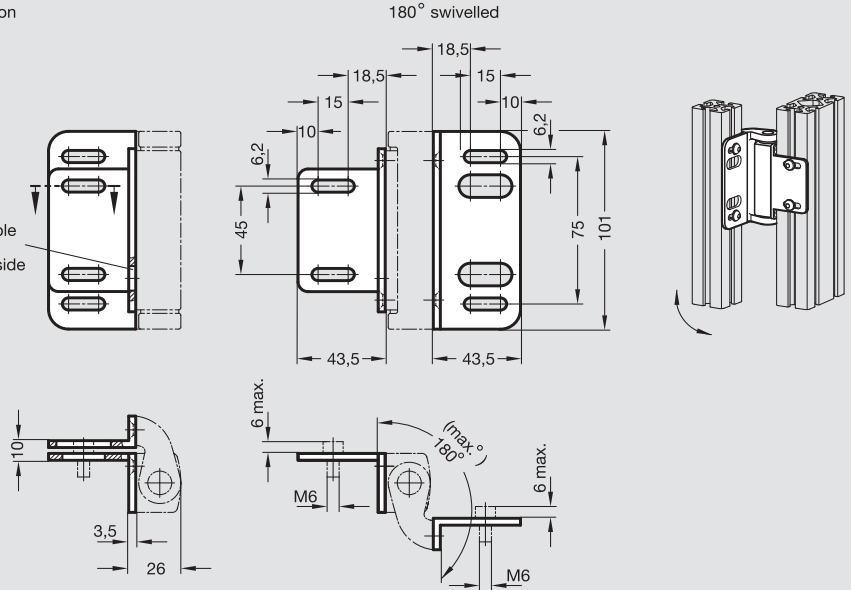


RoHS Compliant



Basic position

Bore for cable connection at the backside



## Mounting plate

Zinc die-cast, silver metallic powder coated finish

GN 139.4 Angled Mounting Plates allow GN 139.1 and GN 139.2 hinges to be attached between frame and door, i.e., in the door gap.

The long slotted holes also permit attachment to profile systems.

Countersunk screws to assemble the hinges to the mounting plate are included.

For flat mounting plates, see GN 139.3, page 6.

Dimensions in: millimeters (inches)

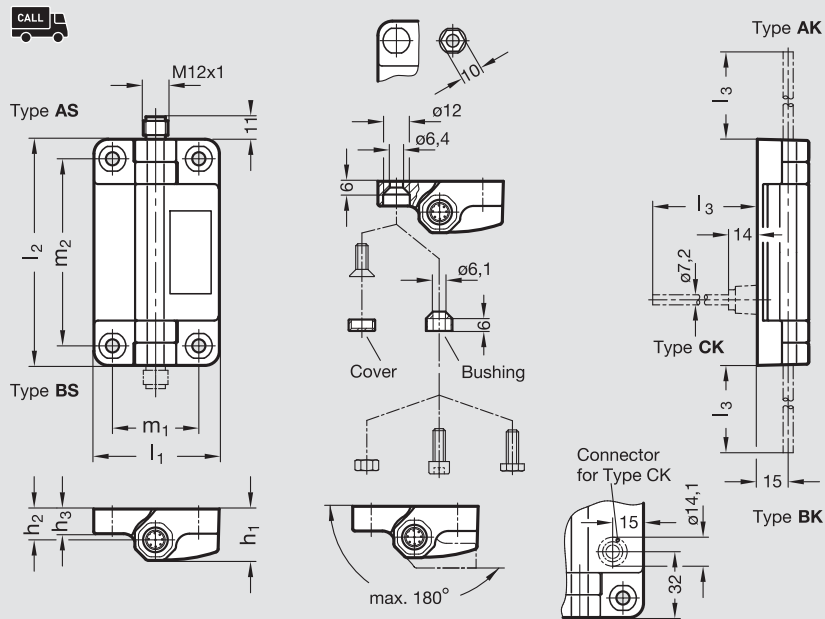
| Part Number | length        |
|-------------|---------------|
| 139.4-101   | 101<br>(4.02) |

# EN 239.6 | Hinges with Integrated Safety Switch

Technopolymer Plastic • Metric Size



RoHS Compliant



## Housing, hinge pin and mounting bushings

Technopolymer plastic (Polyamide PA), black matte finish

## Types

- AS – Connector plug on top
- BS – Connector plug on bottom
- AK – Cable connection on top
- BK – Cable connection on bottom
- CK – Cable connection on back

## Versions

- 1 – Contact block with 2NC/2NO
- 2 – Contact block with 3NC/1NO

## Options for types with cables

- 2 meter cable
- 5 meter cable

EN 239.6 hinges with integrated safety switch were designed for monitoring guard doors and covers of machines and production equipment. Opening the door activates the switch contacts, which then interrupts a protective circuit via a break contact (NC) and at the same time signal the door opening by closing a make-contact element (NO).

The contact blocks are fitted with force-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 is adjustable (see contact travel diagram).

The integrated design of the contact blocks makes these hinges compact, tamper-proof and easy to mount.

Maximum heat resistance of technopolymer plastic: 80°C (175°F).

Operating instructions showing additional important technical information are included with every hinge.

For matching hinges without safety switch, see EN 239.7, page 10.

*Elesa Model CFSW*

## Version 1 – Contact Block with 2NC/2NO

Dimensions in: millimeters (*inches*)

| Connector Plug on Top | Connector Plug on Bottom | Part Number             |                            |                          | l <sub>1</sub><br>+1 mm | l <sub>2</sub> | h <sub>1</sub> | h <sub>2</sub> | h <sub>3</sub> | l <sub>3</sub><br>Cable Length<br>Meters<br>(Feet) | m <sub>1</sub> | m <sub>2</sub> |
|-----------------------|--------------------------|-------------------------|----------------------------|--------------------------|-------------------------|----------------|----------------|----------------|----------------|--|----------------|----------------|
|                       |                          | Cable Connection on Top | Cable Connection on Bottom | Cable Connection on Back |                         |                |                |                |                |  |                |                |
| 239.6-60-110-1-AS     | 239.6-60-110-1-BS        | -                       | -                          | -                        | 60<br>(2.36)            | 110<br>(4.33)  | 25<br>(.98)    | 15<br>(.59)    | 12<br>(.47)    | no cable   | 42<br>(1.65)   | 91<br>(3.58)   |
| -                     | -                        | 239.6-60-110-1-AK-2     | 239.6-60-110-1-BK-2        | 239.6-60-110-1-CK-2      | 60<br>(2.36)            | 110<br>(4.33)  | 25<br>(.98)    | 15<br>(.59)    | 12<br>(.47)    | 2<br>(6.57)  | 42<br>(1.65)   | 91<br>(3.58)   |
| -                     | -                        | 239.6-60-110-1-AK-5     | 239.6-60-110-1-BK-5        | 239.6-60-110-1-CK-5      | 60<br>(2.36)            | 110<br>(4.33)  | 25<br>(.98)    | 15<br>(.59)    | 12<br>(.47)    | 5<br>(16.4)  | 42<br>(1.65)   | 91<br>(3.58)   |





## Version 2 – Contact Block with 3NC/1NO

Dimensions in: millimeters (*inches*)

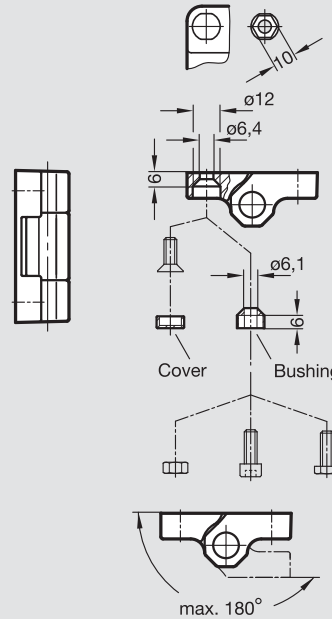
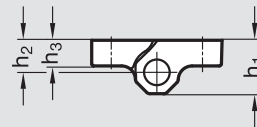
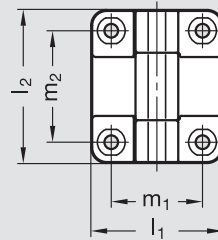
| Connector Plug on Top | Connector Plug on Bottom | Part Number             |                            |                          | l <sub>1</sub><br>+1 mm | l <sub>2</sub> | h <sub>1</sub> | h <sub>2</sub> | h <sub>3</sub> | l <sub>3</sub><br>Cable Length<br>Meters<br>(Feet) | m <sub>1</sub> | m <sub>2</sub> |
|-----------------------|--------------------------|-------------------------|----------------------------|--------------------------|-------------------------|----------------|----------------|----------------|----------------|--|----------------|----------------|
|                       |                          | Cable Connection on Top | Cable Connection on Bottom | Cable Connection on Back |                         |                |                |                |                |  |                |                |
| 239.6-60-110-2-AS     | 239.6-60-110-2-BS        | -                       | -                          | -                        | 60<br>(2.36)            | 110<br>(4.33)  | 25<br>(.98)    | 15<br>(.59)    | 12<br>(.47)    | no cable   | 42<br>(1.65)   | 91<br>(3.58)   |
| -                     | -                        | 239.6-60-110-2-AK-2     | 239.6-60-110-2-BK-2        | 239.6-60-110-2-CK-2      | 60<br>(2.36)            | 110<br>(4.33)  | 25<br>(.98)    | 15<br>(.59)    | 12<br>(.47)    | 2<br>(6.57)  | 42<br>(1.65)   | 91<br>(3.58)   |
| -                     | -                        | 239.6-60-110-2-AK-5     | 239.6-60-110-2-BK-5        | 239.6-60-110-2-CK-5      | 60<br>(2.36)            | 110<br>(4.33)  | 25<br>(.98)    | 15<br>(.59)    | 12<br>(.47)    | 5<br>(16.4)  | 42<br>(1.65)   | 91<br>(3.58)   |

# EN 239.7 | Hinges without Integrated Safety Switch

To Accompany EN 239.6 Hinges with Integrated Safety Switch • Technopolymer Plastic • Metric Size



RoHS Compliant



## Housing, hinge pin and mounting bushings

Technopolymer plastic (Polyamide PA), black matte finish

EN 239.7 hinges without integrated safety switch were designed to be used in conjunction with EN 239.6 hinges with integrated safety switch, in applications with larger doors or gates where several hinges are required.

Various assembly options make this suitable for, and easy to install on, 30 mm min. per side aluminum T-slot profiles.

Maximum heat resistance of technopolymer plastic: 100°C (212°F).

*Elesa Model CFMW*

Dimensions in: millimeters (*inches*)

| Part Number  | $l_1$        | $l_2$         | $h_1$       | $h_2$       | $h_3$       | $m_1$        | $m_2$        |
|--------------|--------------|---------------|-------------|-------------|-------------|--------------|--------------|
| 239.7-60-70  | 60<br>(2.36) | 70<br>(2.76)  | 25<br>(.98) | 15<br>(.59) | 15<br>(.59) | 42<br>(1.65) | 50<br>(1.97) |
| 239.7-60-110 | 60<br>(2.36) | 110<br>(4.33) | 25<br>(.98) | 15<br>(.59) | 12<br>(.47) | 42<br>(1.65) | 91<br>(3.58) |



## Mechanical features

|  |  |        |   |        |
|--|--|--------|---|--------|
| <b>Maximum load</b><br>Information without safety factor<br><br>Examples of calculation<br>→ see operating instruction |  |        |   |        |
|  | <b>GN 239.6</b>  | 2100 N | 2800 N  | 1300 N |
| <b>GN 239.7</b>  | 4500 N   | 7600 N | 5800 N  |        |
| <b>Assembly</b>  | from the front, with countersunk screws or cylinder head screws<br>from the back, with hexagon head screws or nuts |        | e.g. DIN 7991 / DIN 912<br>e.g. DIN 933 / DIN 934 |        |
| <b>Recommended torque</b>  | 5 Nm (Screws and nuts M6)  |        |   |        |
| <b>Protection class</b>  | IP67   |        | acc. to EN 60529                                  |        |
| <b>Switching principle, contact opening</b>  | Slow-action contacts<br>force-fitted, with positive opening  |        | acc. to IEC 60947-5-1, K                          |        |
| <b>Contact material</b>  | Silver alloy Ag 999  |        |   |        |
| <b>Operating travel diagram (scheme)</b>   | The switching points are adjustable up to 4° in direction of 0°.<br><br>→ see operating instruction                |        |   |        |
| <b>Maximum operating frequency</b>   | 1200 / hour  |        | acc. to IEC 60947-5-1                             |        |
| <b>Mechanical life span</b>  | 10 <sup>6</sup> operating cycles   |        | acc. to IEC 60947-5-1                             |        |
| <b>Actuating speed</b>   | min. 2° / second, max. 90° / second  |        |   |        |

## Electrical features

|   |  |  |  |  |
|---|--|--|--|--|
| <b>Utilization category</b>   | DC 13: 24 Vdc / 2 A (connector)<br>AC 15: 400 Vac / 4 A / DC 13: 250 Vac / 0,3 A (cable)         |  | acc. to EN 60947-5-1<br>acc. to EN 60947-5-2 |  |
| <b>Contact termination</b><br>8-pole connector M12<br>or cable with 2 m or 5 m length | Identification no. 1 (2 NC / 2NO)<br>  |  | Identification no. 2 (3 NC / 1NO)<br>        |  |
| <b>Pin and cable assignment</b>   |  |  |  |  |
|   | 1 - red    2 - pink<br>3 - brown    4 - grey<br>5 - yellow    6 - blue<br>7 - green    8 - white |  |  |  |
| <b>Type of cable</b>  | UL/CSA STYLE 2587 8X AWG 22  |  |  |  |
| <b>Short-circuit current</b>  | 1000 A   |  | acc. to IQM                                  |  |
| <b>Rated insulation voltage</b>   | 30 V AC/DC (connector) und 400 AC (cable)  |  |  |  |
| <b>Short-circuit protection</b>   | 4 A, 500 V, Type gG  |  |  |  |
| <b>Ambient temperature</b>  | - 20 °C ... + 80 °C  |  |  |  |
| <b>Degree of pollution, external</b>  | 3  |  | acc. to EN 60947-5-1                         |  |
| <b>Mission time (TM)</b>  | 20 years   |  | acc. to EN ISO 13849-1                       |  |
| <b>Number of cycles (B10 d)</b>   | 2 000 000  |  | acc. to EN 61820-2                           |  |

## Approvals, Conformities, Applicability

|   |                    |   |
|---|--------------------|---|
| Low-voltage switchgear and controlgear<br>CE declaration<br>IMQ: CA02.03746 |                    | EN 60947-1/2007<br>EN 60947-1-5 : 2004 +<br>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 instructions for GN 239.6 hinges which are included with every hinge and which are also available as PDF downloads from [www.ganter-griff.com](http://www.ganter-griff.com) under "Service".

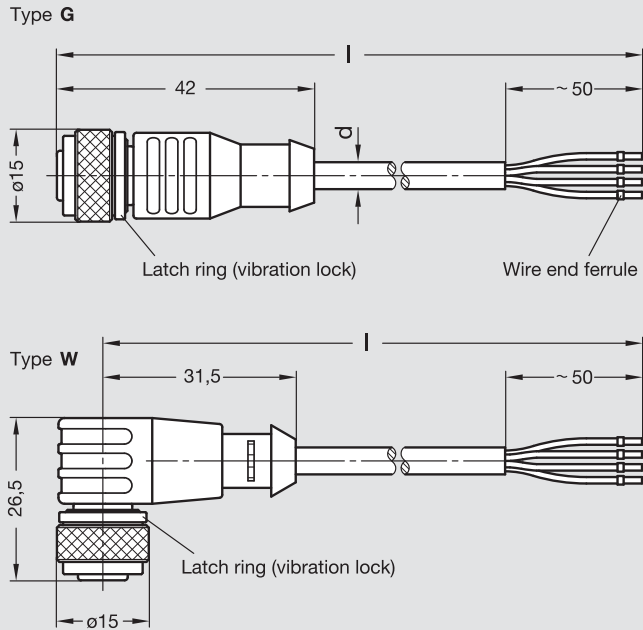
The hinges with safety switch must be mounted and commissioned by qualified technical personnel in compliance with the details given in the operating instructions and with the national and international rules and regulations and the applicable standards. Otto Ganter GmbH & Co. KG will assume no statutory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

# GN 330 | Cables with Connector Coupling

For GN 139.1 and EN 239.6 Hinges



RoHS Compliant



## Connector coupling

Brass nickel plated with M12 x 1.0 thread and 4-, 8- or 12-pole (pin) connection

## Wire housing

Plastic (Polyurethan-Elastomer TPU)

## Cable (outer sheath)

Polyurethan PUR, black

GN 330 cables with connector coupling are used to connect GN 139.1 and EN 239.6 hinges with safety switch. They are available in straight or in 90° angled versions.

The cable is flexible, no PVC, silicone and halogens, with PUR outer sheath; the wire insulation is made of polypropylene. The cable is also oil-resistant and flame-retardant in compliance with VE 0472, as well as resistant to chemicals, hydrolysis and microbes.

With its resistance to welding sparks, the cable is also suitable for the adaptable use in machining processes.

Approvals under UL and CSA.

Temperature resistance: -40°C to 90°C (-40°F to 194°F)

Insulating resistance: > 109 Ω

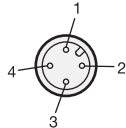
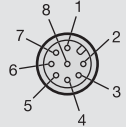
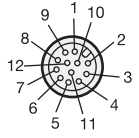
Degree of pollution: 3 / 2, according to ICE 60 664-1

Protection class: IP67 (when fastened to mating part), according to ICE 60 529

Dimensions in: meters (feet)

| Part Number          |                    | Pole (Pin) | d<br>Cable Diameter (mm) | Cable Cross Section (mm) | Operating Voltage acc. to IEC 60 664-1 | Current Load Rating acc. to IEC 60512-3 | l<br>Cable Length meters (feet) |
|----------------------|--------------------|------------|--------------------------|--------------------------|--|---|---------------------------------|
| Straight Type Type G | Angled Type Type W |            |                          |                          |  |   |                                 |
| 330-M12X1-4-G-5      | -                  | 4          | 5<br>(.20)               | 4 x .34 mm <sup>2</sup>  | max. 250V                              | 1A                                      | 5<br>(16.4)                     |
| 330-M12X1-4-G-10     | -                  |            |                          |                          |  |   | 10<br>(32.8)                    |
| 330-M12X1-8-G-5      | 330-M12X1-8-W-5    | 8          | 6<br>(.24)               | 8 x .25 mm <sup>2</sup>  | max. 30V                               | 2A                                      | 5<br>(16.4)                     |
| 330-M12X1-8-G-10     | 330-M12X1-8-W-10   |            |                          |                          |  |   | 10<br>(32.8)                    |
| 330-M12X1-12-G-5     | 330-M12X1-12-W-5   | 12         | 6<br>(.24)               | 12 x .14 mm <sup>2</sup> | max. 30V                               | 1.5A                                    | 5<br>(16.4)                     |
| 330-M12X1-12-G-10    | 330-M12X1-12-W-10  |            |                          |                          |  |   | 10<br>(32.8)                    |



| Cable with plug-in connector | d Outside diameter | Cross-section             | Operating voltage acc. to IEC 60 664-1 | Current load rating acc. to IEC 60512-3 | Contact assignment  |
|------------------------------|--------------------|---------------------------|--|---|---|
| 4-pole (4-wire)              | 5                  | 4 x 0,34 mm <sup>2</sup>  | max. 250 V                             | 4A                                      | <br>1 brown    3 blue<br>2 white    4 black  |
| 8-pole (8-wire)              | 6                  | 8 x 0,25 mm <sup>2</sup>  | max. 30V                               | 2A                                      | <br>1 white    5 grey<br>2 brown    6 pink<br>3 green    7 blue<br>4 yellow    8 red   |
| 12-pole (12-wire)            | 6                  | 12 x 0,14 mm <sup>2</sup> | max. 30V                               | 1.5A                                    | <br>1 brown    5 pink    9 red<br>2 blue    6 yellow    10 purple<br>3 white    7 black    11 grey/pink<br>4 green    8 grey    12 red/blue |

### Other cable properties

This adaptable cable, suitable for drag chains, features an outer jacket made of PUR and a core insulation made of polypropylene. It is free of PVC, silicon and halogens. UL and CSA approvals are available.

The cable is also resistant to oil, chemicals, hydrolysis, microbes and welding sparks and flame retardant under IEC 60332-2-2 which makes the cable the perfect choice in many applications.



**J.W. WINCO,<sup>®</sup>**  
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## Beyond Print – Visit our Website

**Our website offers these advantages to our customers to assist them  
in the component selection and purchase process in record time:**

- Up-to-date, complete product detail on our entire line
- Simple product selection
- Free 2D and 3D CAD downloads in virtually every format
- 24/7 online storefront—order via credit card
- Shipping made easy – open an account, track past purchases, etc.

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## Beyond Standard – Customized Solutions

**Customized solutions are part of J.W. Winco, Inc.’s core competence. In spite of the enormous variety of standardized components we offer, we recognize our customers sometimes have highly specific requirements in terms of dimensions, materials or functionality. Working closely with the customer, J.W. Winco develops individual solutions.**

**Modified or new** Depending on the requirements, customized elements can often be made by cost-effectively modifying an existing J.W. Winco standard component, or even developing a new one –and we have the tools to achieve this.

**Also in small quantities** A unique variety of different production methods and an adaptable, customer-driven approach allow standard parts to be altered and customized even in relatively small quantities.

**All-around service** This is just one of the many benefits of working with J.W. Winco, Inc. We also offer services like assembly, kit packaging and barcoding, to save you time and money.

Visit our web site to view our complete online catalog, shop online and download 3D CAD models of our parts!

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## Let us tell you 8 GREAT WAYS

J.W. Winco, Inc. can help you reduce your overall costs!

### 1. Remember the value of standard machine components.

They're your best buy, saving countless hours of research, design and manufacturing time. We have over 18,000 competitively priced standard parts in stock with thousands more available quickly; all exceptional quality and the most modern designs. Why waste money on lesser quality components that result in product failure or equipment downtime headaches?

### 2. Download 3D CAD models for nearly our entire product line.

A brief, one-time registration process allows you to access our free 3D CAD models. The eDrawings online CAD viewer enables you to see models right online, and you can download them in any of 19 different formats.

**3. Shop online 24/7 with our eStore.** View pricing right online and make your purchase with your credit card. For customers with established accounts, our eStore offers the ability to view pricing, track past purchases, and much more.

**4. Receive the technical expertise you need to do it right the first time.** Save time and trouble by talking with a technical sales expert who can answer all your questions, tell you the detailed specs you need to know, and offer suggestions for your particular application.

**5. Simplify purchasing by going to one source.** Save multiple

purchase order costs – J.W. Winco offers North America's largest selection of metal and plastic hand operating components, fastening, fixturing, and access hardware in both metric and inch sizes.

**6. Get your required secondary machining and assembly from the same source.** Assembly and handling time are added costs for you. Why not let us do the work? Our in-house machining facility can accommodate the special requirements of your application.

### 7. Satisfy your special labeling and packaging requirements.

We can provide bar code and UPC code labeling and meet your other special labeling and packaging needs. Save costs by expediting your receiving and stocking process.

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**When you buy from us, you purchase a complete overall cost reduction solution. That's why we say...**

**We're more than just quality parts!**

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\*J.W. Winco, Inc. is  
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