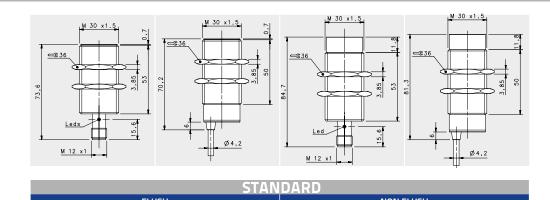
# BASIC M30

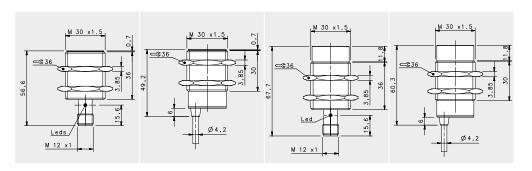




NON FLUSH

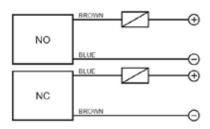
|   |               |   |           | FLU   | 4.40  | INUN F  |  |
|---|---------------|---|-----------|---|---|---|--|
|   |               |   |           | M12 conn  | cable   | M12 conn  | cable  |
| NOMINAL SWITCH  | HING DISTANC  | CE                                      |           | 10 mm   | 10 mm   | 15 mm   | 15 mm  |
|   | PNP/NPN       |   |           | IS-30-A0-S2   | IS-30-A0-03   | IS-30-C0-S2   | IS-30-C0-03  |
| 10-30 Vdc   | NO-NC         | 4 wires                                 | order No. | 95B064490   | 95B064460   | 95B064510   | 95B064470  |
| 40.2014   | PNP           | <u>.</u> .                              |           | IS-30-A1-S2   | IS-30-A1-03   | IS-30-C1-S2   | IS-30-C1-03  |
| 10-30 Vdc   | NO            | 3 wires                                 | order No. | 95B061431   | 95B061421   | 95B061831   | 95B061821  |
| 40.2014-  | PNP           | 2                                       |           | IS-30-A2-S2   | IS-30-A2-03   | IS-30-C2-S2   | IS-30-C2-03  |
| 10-30 Vdc   | NC            | 3 wires                                 | order No. | 95B061451   | 95B061441   | 95B061851   | 95B061841  |
| 10-30 Vdc   | NPN           | 3 wires                                 |           | IS-30-A3-S2   | IS-30-A3-03   | IS-30-C3-S2   | IS-30-C3-03  |
| 10-50 Vac   | NO            | 5 WIIES                                 | order No. | 95B061391   | 95B061381   | 95B061791   | 95B061781  |
| 10-30 Vdc   | NPN           | 3 wires                                 |           | IS-30-A4-S2   | IS-30-A4-03   | IS-30-C4-S2   | IS-30-C4-03  |
| 10-30 vac   | NC            | 2 MILE2                                 | order No. | 95B061411   | 95B061401   | 95B061811   | 95B061801  |
| 10-30 Vdc   | PNP           | 4 wires                                 |           |   |   |   |  |
| 10-30 vac   | NO-NC         | 4 WIICS                                 | order No. |   |   |   |  |
| 10-30 Vdc   | NPN           | 4 wires                                 |           |   |   |   |  |
| 10 30 vac   | NO-NC         | 4 WIIC3                                 | order No. |   |   |   |  |
| 10-30 Vdc   | NO-NC         | 2 wires                                 |           | IS-30-A9-S2   | IS-30-A9-03   | IS-30-C9-S2   | IS-30-C9-03  |
| 10 30 vac   | 110 110       | 2 WIIC3                                 | order No. | 95B064570   | 95B064530   | 95B064590   | 95B064550  |
| 20-250 Vac/Vdc  | NO            | 2 wires                                 |           |   |   |   |  |
|   |               | 2 ************************************* | order No. |   |   |   |  |
| 20-250 Vac/Vdc  | NC            | 2 wires                                 |           |   |   |   |  |
| 20 250 740, 740   |               | 2 1111111                               | order No. |   |   |   |  |
| 20-250 Vac  | NO            | 2/3wires                                |           |   |   |   |  |
|   |               |   | order No. |   |   |   |  |
| 10-30 Vdc   | Analog        | 3 wires                                 |           |   |   |   |  |
|   | 0-20 mA       |   | order No. |   |   |   |  |
| NAMUR amplifier   | NAMUR         | 2 wires                                 |           |   |   |   |  |
| <u>'</u>  |               |   | order No. |   |   |   |  |
| Name in all Valles as   |               |   |           | 40.2014-1.45/409/   | 40 20 1/4- / 45 /40%)   | 40 20 1/4- / 45 (40%)   | 40 20 14-1 45 (40%)  |
| Nominal Voltage   |               |   |           | 10-30 Vdc (-15/10%)   | 10-30 Vdc (-15/10%)   | 10-30 Vdc (-15/10%)   | 10-30 Vdc (-15/10%)  |
|   |               |   |           | 4.00  | 4.00  |   |  |
| Residual Ripple   |               |   |           | < 10%   | < 10%   | < 10%   | < 10%  |
| Hysteresis  |               |   |           | < 10%   | < 10%   | < 10%   | < 10%  |
| Hysteresis<br>Max. Output Currer  |               |   |           | < 10%<br>200mA; 100 mA (2wires)   | < 10%<br>200mA; 100 mA (2wires)   | < 10%<br>200mA; 100 mA (2wires)   | < 10%<br>200mA; 100 mA (2wires)  |
| Hysteresis<br>Max. Output Currer<br>Min. Output Curre   |               |   |           | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)   |
| Hysteresis<br>Max. Output Currer<br>Min. Output Curre<br>Residual Current   |               |   |           | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA   |
| Hysteresis<br>Max. Output Currer<br>Min. Output Currer<br>Residual Current<br>Voltage Drop  |               |   |           | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)   |
| Hysteresis<br>Max. Output Currer<br>Min. Output Currer<br>Residual Current<br>Voltage Drop<br>Operation Led   | ent           |   |           | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,5 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow   |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer  | ent           |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC)   | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow<br>300 Hz/250 Hz (2 wires NO-NC)   | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow<br>300 Hz/250 Hz (2 wires NO-NC)   | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC)  |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay   | ent           |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms   | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow<br>300 Hz/250 Hz (2 wires NO-NC)<br>< 50 ms  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow<br>300 Hz/250 Hz (2 wires NO-NC)<br>< 50 ms  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms  |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability   | ncy           |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3%  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3%  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3%  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3%   |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay   | ncy           |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms   | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow<br>300 Hz/250 Hz (2 wires NO-NC)<br>< 50 ms  | < 10%<br>200mA; 100 mA (2wires)<br>> 1,6 mA (2wires)<br>< 1,6 mA<br>< 1,8V; < 6,5 V (2wires)<br>Yellow<br>300 Hz/250 Hz (2 wires NO-NC)<br>< 50 ms  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms  |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability   | ncy           |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3%  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3%  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3%  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3%   |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability Short Circuit Prote   | ncy<br>ection |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal   | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal   | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal   | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal  |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability Short Circuit Protection  | ncy<br>ection |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads   | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads   | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads   | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads  |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability Short Circuit Protection Temperature Limit  | ncy<br>ection |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)                              | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)  | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)                              | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C)   |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability Short Circuit Protection Temperature Limit Protection Degree  | ncy<br>ection |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67                         | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67   | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67                         | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67  |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability Short Circuit Protection Temperature Limit Protection Degree Cable Length   | ncy<br>ection |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67                         | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 2 x 0,34 mm² 3 x 0.14 mm²                                     | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67                         | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 2 x 0,34 mm² 3 x 0.14 mm²                                      |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability Short Circuit Prote Electric Protection Temperature Limit Protection Degree Cable Length Cable Section                  | ncy<br>ection |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67                         | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²                        | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67                         | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²                         |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability Short Circuit Protection Temperature Limit Protection Degree Cable Length Cable Section Housing Material Active face    | ncy<br>ection |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 Nickel-plated brass LCP | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25+70 °C) IP67 2 m 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass LCP | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 Nickel-plated brass LCP | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass     |
| Hysteresis Max. Output Currer Min. Output Currer Residual Current Voltage Drop Operation Led Switching Frequer Start Up Delay Repeatability Short Circuit Prote Electric Protection Temperature Limit Protection Degree Cable Length Cable Section Housing Material | ncy<br>ection |   |           | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 Nickel-plated brass     | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass    | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 Nickel-plated brass     | < 10% 200mA; 100 mA (2wires) > 1,6 mA (2wires) < 1,6 mA < 1,8V; < 6,5 V (2wires) Yellow 300 Hz/250 Hz (2 wires NO-NC) < 50 ms < 3% Present (self-resetting) Against polarity reversal inductive loads (-25 +70 °C) IP67 2 m 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Nickel-plated brass LCP |

FLUSH

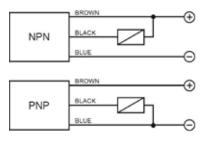


|   | SH  | ORT                                       |   |
|---|---|---|---|
| FLU                                       |   | NON F                                     | LUSH                                      |
| M12 conn                                  | cable                                     | M12 conn                                  | cable                                     |
| 10 mm                                     | 10 mm                                     | 15 mm                                     | 15 mm                                     |
|   |   |   |   |
|   |   |   |   |
| IS-30-B1-S2                               | IS-30-B1-03                               | IS-30-D1-S2                               | IS-30-D1-03                               |
| 95B062231                                 | 95B062221                                 | 95B062631                                 | 95B062621                                 |
| IS-30-B2-S2                               | IS-30-B2-03                               | IS-30-D2-S2                               | IS-30-D2-03                               |
| 95B062251                                 | 95B062241                                 | 95B062651                                 | 95B062641                                 |
| IS-30-B3-S2                               | IS-30-B3-03                               | IS-30-D3-S2                               | IS-30-D3-03                               |
| 95B062191                                 | 95B062181                                 | 95B062591                                 | 95B062581                                 |
| IS-30-B4-S2                               | IS-30-B4-03                               | IS-30-D4-S2                               | IS-30-D4-03                               |
| 95B062211                                 | 95B062201                                 | 95B062611                                 | 95B062601                                 |
|   |   |   |   |
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|   |   |   |   |
|   |   |   |   |
| 10-30 Vdc (-15/10%)                       | 10-30 Vdc (-15/10%)                       | 10-30 Vdc (-15/10%)                       | 10-30 Vdc (-15/10%)                       |
| < 10%                                     | < 10%                                     | < 10%                                     | < 10%                                     |
| < 10%                                     | < 10%                                     | < 10%                                     | < 10%                                     |
| 200 mA                                    | 200 mA                                    | 200 mA                                    | 200 mA                                    |
|   |   |   |   |
| < 10 mA                                   | < 10 mA                                   | < 10 mA                                   | < 10 mA                                   |
| < 1,8 V (I=100mA)                         |
| Yellow                                    | Yellow                                    | Yellow                                    | Yellow                                    |
| 300 Hz                                    | 300 Hz                                    | 300 Hz                                    | 300 Hz                                    |
| < 50 ms                                   | < 50 ms                                   | < 50 ms                                   | < 50 ms                                   |
| < 3%                                      | < 3%                                      | < 3%                                      | < 3%                                      |
| Present (self-resetting)                  | Present (self-resetting)                  | Present (self-resetting)                  | Present (self-resetting)                  |
| Against polarity reversal inductive loads |
| (-25 +60 °C)                              | (-25 +60 °C)                              | (-25 +60 °C)                              | (-25 +60 °C)                              |
| IP67                                      | IP67                                      | IP67                                      | IP67                                      |
|   | 2 m                                       |   | 2 m                                       |
|   | 3 x 0,14 mm²                              |   | 3 x 0,14 mm²                              |
| Nickel-plated brass                       | Nickel-plated brass                       | Nickel-plated brass                       | Nickel-plated brass                       |
| LCP                                       | LCP                                       | LCP                                       | LCP                                       |
| 60Nm                                      | 60Nm                                      | 60Nm                                      | 60Nm                                      |
|   | 210 g                                     |   | 210 g                                     |
|   | 210 g                                     | 170 g                                     | 210 g<br>                                 |
| 170 g                                     |   | 1708                                      |   |

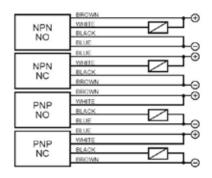
### 2 wires NO or NC



### 3 wires PNP or NPN



### 4 wires (PNP/NPN, NO/NC)



### M12 connector - connections



### 2 wires NO or NC

| Augusta de la compansión de la compansió | Contacts numbers |   |   |   |  |
|--|------------------|---|---|---|--|
| Available  | 1                | 2 | 3 | 4 |  |
| NO   | +                |   | - |   |  |
| NC   | . 2              |   | + |   |  |

#### 3 wires

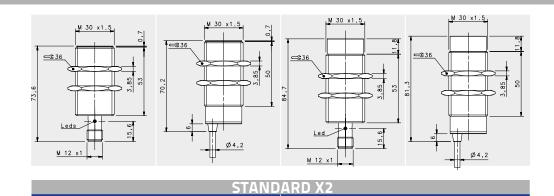
| C          | ONTACTS | CONFIGU  | RATION  |       |
|------------|---------|----------|---------|-------|
| Available  |         | Contacts | numbers |       |
| Avaisore   | -1      | 2        | 3       | 4     |
| (NO or NC) | +       |          | _       | NO/NO |

#### 4 wires (PNP/NPN, NO/NC)

| Output |     | Contacts | numbers           |    |
|--------|-----|----------|-------------------|----|
| Output | M1  | 2        | - 3               | 4  |
| NPN NO | +   | NO       | _                 | -  |
| NPN NC | -   | NC       | +                 | -  |
| PNP NO | + . | +        | : <del>-</del> -1 | NO |
| PNP NC | -   | +        | +                 | NC |

# BASIC M30

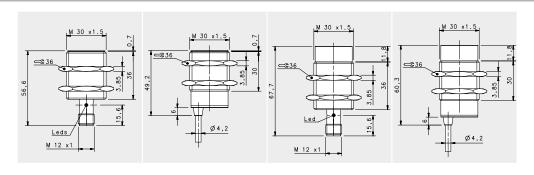




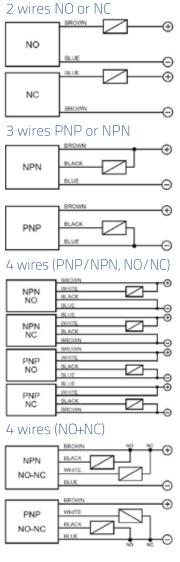
NON-FLUSH

|   |                   |           |              | M12 conn                                  | cable  | M12 conn                                  | cable  |
|---|-------------------|-----------|--------------|---|--|---|--|
| NOMINAL SWITCH  | ING DISTAN        | CE        |              | 15mm                                      | 15mm   | 20 mm                                     | 20 mm  |
|   | PNP/NPN           | T         |              | IS-30-E0-S2                               | IS-30-E0-03  | IS-30-F0-S2                               | IS-30-F0-03  |
| 10-30 Vdc   | NO-NC             | 4 wires   | order No.    | 95B067390                                 | 95B067350  | 95B067410                                 | 95B067370  |
| 40.2014-  | PNP               | 2         |              | IS-30-E1-S2                               | IS-30-E1-03  | IS-30-F1-S2                               | IS-30-F1-03  |
| 10-30 Vdc   | NO                | 3 wires   | order No.    | 95B067060                                 | 95B067950  | 95B067990                                 | 95B068030  |
| 10 20 1/4-  | PNP               | 2         |              | IS-30-E2-S2                               | IS-30-E2-03  | IS-30-F2-S2                               | IS-30-F2-03  |
| 10-30 Vdc   | NC                | 3 wires   | order No.    | 95B067920                                 | 95B067960  | 95B068000                                 | 95B068040  |
| 10-30 Vdc   | NPN               | 3 wires   |              | IS-30-E3-S2                               | IS-30-E3-03  | IS-30-F3-S2                               | IS-30-F3-03  |
| 10-30 Vuc   | NO                | 5 WIIES   | order No.    | 95B067930                                 | 95B067970  | 95B068010                                 | 95B068050  |
| 10-30 Vdc   | NPN               | 3 wires   |              | IS-30-E4-S2                               | IS-30-E4-03  | IS-30-F4-S2                               | IS-30-F4-03  |
| 10 30 vac   | NC                | J WIICS   | order No.    | 95B067940                                 | 95B067980  | 95B068020                                 | 95B068060  |
| 10-30 Vdc   | PNP               | 4 wires   |              |   |  |   |  |
| 10 30 vac   | NO-NC             | 4 WIICS   | order No.    |   |  |   |  |
| 10-30 Vdc   | NPN               | 4 wires   |              |   |  |   |  |
| 10 30 vac   | NO-NC             | 4 WIICS   | order No.    |   |  |   |  |
| 10-30 Vdc   | NO-NC             | 2 wires   |              | IS-30-E9-S2                               | IS-30-E9-03  | IS-30-F9-S2                               | IS-30-F9-03  |
|   |                   | 2         | order No.    | 95B067400                                 | 95B067360  | 95B067420                                 | 95B067380  |
| 20-250 Vac/Vdc  | NO                | 2 wires   |              |   |  |   |  |
| 20 250 140, 140   |                   | 2         | order No.    |   |  |   |  |
| 20-250 Vac/Vdc  | NC                | 2 wires   |              |   |  |   |  |
| 20 250 140, 140   |                   | 2         | order No.    |   |  |   |  |
| 20-250 Vac  | NO 2/3w           | 2/3 wires |              |   |  |   |  |
|   |                   |           | order No.    |   |  |   |  |
| 10-30 Vdc   | Analog            | 3 wires   |              |   |  |   |  |
|   | 0-20 mA           |           | order No.    |   |  |   |  |
| NAMUR amplifier   | NAMUR             | 2 wires   |              |   |  |   |  |
| '   |                   |           | order No.    |   |  |   |  |
| N : 137 b   |                   |           |              | 10.701/1 / 15/10%                         | 10 20 11 1 15 (10%)  | 10.2011 / 45/4001                         | 40 20 11 / 45 (40%)  |
| Nominal Voltage   |                   |           |              | 10-30 Vdc (-15/10%)                       | 10-30 Vdc (-15/10%)  | 10-30 Vdc (-15/10%)                       | 10-30 Vdc (-15/10%)  |
| Residual Ripple   |                   |           |              | < 10%                                     | < 10%  | < 10%                                     | < 10%  |
| Hysteresis  |                   |           |              | < 10%                                     | < 10%  | < 10%                                     | < 10%  |
| Max. Output Currer  |                   |           |              | 200 mA                                    | 200 mA   | 200 mA                                    | 200 mA   |
| Min. Output Curre   | nt                |           |              |   |  |   |  |
| Residual Current  |                   |           |              | < 10 mA                                   | < 10 mA  | < 10 mA                                   | < 10 mA  |
| Voltage Drop  |                   |           |              | < 6,5 V (I=100mA)                         | < 6,5 V (I=100mA)  | < 6,5 V (I=100mA)                         | < 6,5 V (I=100mA)  |
| Operation Led   |                   |           |              | Yellow                                    | Yellow   | Yellow                                    | Yellow   |
| Switching Frequen   | ıcy               |           |              | 200 Hz/100 Hz (2 wires NO-NC)             | 200 Hz/100 Hz (2 wires NO-NC)                                      | 200 Hz/100 Hz (2 wires NO-NC)             | 200 Hz/100 Hz (2 wires NO-NC)                                |
| Start Up Delay  |                   |           |              | < 75 ms                                   | < 75 ms  | < 75 ms                                   | < 75 ms  |
| Repeatability   |                   |           |              | < 3%                                      | < 3%   | < 3%                                      | < 3%   |
| Short Circuit Prote   | ction             |           |              | Present (self-resetting)                  | Present (self-resetting)   | Present (self-resetting)                  | Present (self-resetting)                                     |
| Electric Protection   |                   |           |              | Against polarity reversal inductive loads | Against polarity reversal inductive loads                          | Against polarity reversal inductive loads | Against polarity reversal inductive loads                    |
| Temperature Limit   | Temperature Limit |           | (-25 +70 °C) | (-25 +70 °C)                              | (-25 +70 °C)   | (-25 +70 °C)                              |  |
| Protection Degree   |                   |           |              | IP67                                      | IP67   | IP67                                      | IP67   |
| Cable Length  |                   |           |              |   |  |   |  |
| Cable Section   |                   |           |              |   | 2 x 0,34 mm²<br>3 x 0,14 mm²<br>4 x 0,25 mm²                       |   | 2 x 0,34 mm²<br>3 x 0,14 mm²<br>4 x 0,25 mm²                 |
| Housing Material  |                   |           |              | Nickel-plated brass                       | Nickel-plated brass  | Nickel-plated brass                       | Nickel-plated brass  |
|   |                   |           |              | LCP                                       | LCP  | LCP                                       | LCP  |
|   |                   |           |              |   |  |   |  |
|   | put               |           |              |   |  |   |  |
| 0   | •                 |           |              |   |  |   |  |
| Cable Section  Housing Material Active face Tightening torque Weight - Cable Out Weight - Connector | •                 |           |              | Nickel-plated brass<br>LCP<br>60Nm        | 3 x 0.14 mm²<br>4 x 0,25 mm²<br>Nickel-plated brass<br>LCP<br>60Nm | LCP<br>60Nm                               | 3 x 0,14 mm<br>4 x 0,25 mm<br>Nickel-plated b<br>LCP<br>60Nm |

FLUSH



|   | SHO!                                      | RT X2                                     |   |  |  |
|---|---|---|---|--|--|
| FLL                                       | JSH                                       | NON FLUSH                                 |   |  |  |
| M12 conn                                  | cable                                     | M12 conn                                  | cable                                     |  |  |
| 15mm                                      | 15mm                                      | 20 mm                                     | 20 mm                                     |  |  |
|   |   |   |   |  |  |
|   |   |   |   |  |  |
| IS-30-G1-S2                               | IS-30-G1-03                               | IS-30-H1-S2                               | IS-30-H1-03                               |  |  |
| 95B063691                                 | 95B063681                                 | 95B063771                                 | 95B063761                                 |  |  |
| IS-30-G2-S2                               | IS-30-G2-03                               | IS-30-H2-S2                               | IS-30-H2-03                               |  |  |
| 95B063711                                 | 95B063701                                 | 95B063791                                 | 95B063781                                 |  |  |
| IS-30-G3-S2                               | IS-30-G3-03                               | IS-30-H3-S2                               | IS-30-H3-03                               |  |  |
| 95B063651                                 | 95B063641                                 | 95B063731                                 | 95B063721                                 |  |  |
| IS-30-G4-S2                               | IS-30-G4-03                               | IS-30-H4-S2                               | IS-30-H4-03                               |  |  |
| 95B063671                                 | 95B063661                                 | 95B063751                                 | 95B063741                                 |  |  |
| IS-30-G5-S2                               | IS-30-G5-03                               | IS-30-H5-S2                               | IS-30-H5-03                               |  |  |
| 95B063831                                 | 95B063821                                 | 95B064450                                 | 95B064420                                 |  |  |
| IS-30-G6-S2                               | IS-30-G6-03                               | IS-30-H6-S2                               | IS-30-H6-03                               |  |  |
| 95B064430                                 | 95B064400                                 | 95B064440                                 | 95B064410                                 |  |  |
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|   |   |   |   |  |  |
| 40.2011 / 45.440%                         | 10.20.11 / 45.(40%)                       | 40.2011 / 45.44001                        | 40 20 11 / 45 (40%)                       |  |  |
| 10-30 Vdc (-15/10%)                       | 10-30 Vdc (-15/10%)                       | 10-30 Vdc (-15/10%)                       | 10-30 Vdc (-15/10%)                       |  |  |
| < 10%                                     | < 10%                                     | < 10%                                     | < 10%                                     |  |  |
| < 10%                                     | < 10%                                     | < 10%                                     | < 10%                                     |  |  |
| 200 mA                                    | 200 mA                                    | 200 mA                                    | 200 mA                                    |  |  |
|   |   |   |   |  |  |
| < 10 mA                                   | < 10 mA                                   | < 10 mA                                   | < 10 mA                                   |  |  |
| < 1,2 V (I=100mA)                         |  |  |
| Yellow                                    | Yellow                                    | Yellow                                    | Yellow                                    |  |  |
| 200 Hz                                    | 200 Hz                                    | 200 Hz                                    | 200 Hz                                    |  |  |
| < 75 ms                                   | < 75 ms                                   | < 75 ms                                   | < 75 ms                                   |  |  |
| < 3%                                      | < 3%                                      | < 3%                                      | < 3%                                      |  |  |
| Present (self-resetting)                  | Present (self-resetting)                  | Present (self-resetting)                  | Present (self-resetting)                  |  |  |
| Against polarity reversal inductive loads |  |  |
| (-25 +70 °C)                              | (-25 +70 °C)                              | (-25 +70 °C)                              | (-25 +70 °C)                              |  |  |
| IP67                                      | IP67                                      | IP67                                      | IP67                                      |  |  |
|   | 2 m                                       |   | 2 m                                       |  |  |
|   | 3 x 0,14 mm²<br>4 x 0,25 mm²              |   | 3 x 0,14 mm²<br>4 x 0,25 mm²              |  |  |
| Nickel-plated brass                       | Nickel-plated brass                       | Nickel-plated brass                       | Nickel-plated brass                       |  |  |
| LCP                                       | LCP                                       | LCP                                       | LCP                                       |  |  |
|   | 60Nm                                      | 60Nm                                      | 60Nm                                      |  |  |
| 60Nm                                      |   |   |   |  |  |
| <br>170 a                                 | 210 g<br>                                 | 170 ~                                     | 210 g                                     |  |  |
| 170 g                                     |   | 170 g                                     |   |  |  |



### M12 connector connections

#### 2 wires NO or NC

| San San San | Contacts numbers |   |   |   |
|-------------|------------------|---|---|---|
| AVERIADIO.  | 1                | 2 | 3 | 4 |
| NO          | +                |   | - |   |
| NC          | -                |   | + |   |

#### 3 wires

| C          | ONTACT | B CONFIGU | RATION  |       |
|------------|--------|-----------|---------|-------|
| Available  |        | Contacts  | numbers |       |
| Available  | 1      | 2         | 3       | 4     |
| (NO or NC) | +      | 1,500,00  | -       | NOINC |

### 4 wires (PNP/NPN, NO/NC)

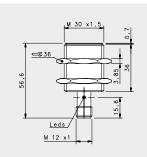
|   | Contacts  | numbers                    |   |
|---|-----------|----------------------------|---|
| 1 | - 2       | - 3                        | - 4   |
| + | NO:       | -                          | -   |
| - | NC        | +                          | -   |
| + | +         | -                          | NO  |
| - | +         | +                          | NO  |
|   | + + + + - | 1 2<br>+ NO<br>- NC<br>+ + | 1 2 3<br>+ NO -<br>- NC +<br>+ + -<br>- + + |

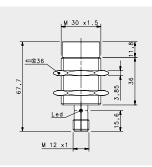
### 4 wires (NO+NC)

| Available | 2414 | Contacts | numbers |     |
|-----------|------|----------|---------|-----|
| AVAILABLE | -1   | 2        | 3       | 4   |
| (NO + NC) | +    | NC.      | _       | NO. |

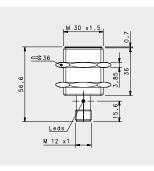
## STAINLESS STEEL M30

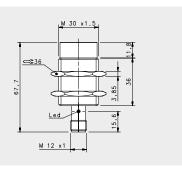






|                               |                  |           |            | SHORT STAINLESS STEEL     |                           |            |           |  |  |
|-------------------------------|------------------|-----------|------------|---------------------------|---------------------------|------------|-----------|--|--|
|                               |                  |           |            | FLUSH                     | NON FLUSH                 |            |           |  |  |
|                               |                  |           |            | M12 conn                  | M12                       |            |           |  |  |
| NOMINAL SWITCH                | IING DISTAN      | CE        |            | 10 mm                     | 15 mm                     |            |           |  |  |
| 10-30 Vdc                     | PNP/NPN<br>NO-NC | 4 wires   | order No.  |                           |                           |            |           |  |  |
|                               | PNP              |           | oraci ivo. | IS-30-M1-S2               | IS-30-N1-S2               |            |           |  |  |
| 10-30 Vdc                     | NO NO            | 3 wires   | order No.  | 95B060400                 | 958060440                 |            |           |  |  |
|                               | PNP              |           | oraci itoi | IS-30-M2-S2               | IS-30-N2-S2               |            |           |  |  |
| 10-30 Vdc                     | NC               | 3 wires   | order No.  | 95B060410                 | 95B060450                 |            |           |  |  |
| 10 20 1/4-                    | NPN              | 2 minas   |            | IS-30-M3-S2               | IS-30-N3-S2               |            |           |  |  |
| 10-30 Vdc                     | NO               | 3 wires   | order No.  | 95B060420                 | 95B060460                 |            |           |  |  |
| 10-30 Vdc                     | NPN              | 3 wires   |            | IS-30-M4-S2               | IS-30-N4-S2               |            |           |  |  |
| 10-30 vac                     | NC               | 2 MILE2   | order No.  | 95B060430                 | 95B060470                 |            |           |  |  |
| 10-30 Vdc                     | PNP              | 4 wires   |            |                           |                           |            |           |  |  |
| 10 30 vac                     | NO-NC            | - Wiles   | order No.  |                           |                           |            |           |  |  |
| 10-30 Vdc                     | NPN              | 4 wires   |            |                           |                           |            |           |  |  |
|                               | NO-NC            |           | order No.  |                           |                           |            |           |  |  |
| 10-30 Vdc                     | -30 Vdc NO-NC    | 2 wires   |            |                           |                           |            |           |  |  |
|                               |                  |           | order No.  |                           |                           |            |           |  |  |
| 20-250 Vac/Vdc                | NO               | 2 wires   | audau Na   |                           |                           |            |           |  |  |
|                               |                  |           | order No.  |                           |                           |            |           |  |  |
| 20-250 Vac/Vdc                | 250 Vac/Vdc NC   | NC        | 2 wires    | 2 wires                   | 2 wires                   | NC 2 wires | order No. |  |  |
|                               |                  |           | order No.  |                           |                           |            |           |  |  |
| 20-250 Vac                    | NO               | 2/3 wires | order No.  |                           |                           |            |           |  |  |
|                               | c Analog 3 wires |           | order No.  |                           |                           |            |           |  |  |
| 10-30 Vdc                     |                  |           | order No.  |                           |                           |            |           |  |  |
|                               |                  |           | 0.46       |                           |                           |            |           |  |  |
| NAMUR amplifier               | NAMUR            | 2 wires   | order No.  |                           |                           |            |           |  |  |
| Nominal Voltage               |                  |           |            | 10-30 Vdc (-15/10%)       | 10-30 Vdc (-15/10%)       |            |           |  |  |
| Residual Ripple               |                  |           |            | < 10%                     | < 10%                     |            |           |  |  |
| Hysteresis                    |                  |           |            | < 10%                     | < 10%                     |            |           |  |  |
| Max. Output Currer            | nt               |           |            | 200 mA                    | 200 mA                    |            |           |  |  |
| Min. Output Curre             |                  |           |            | 200 IIIA                  | 200 THA                   |            |           |  |  |
| Residual Current              | iii.             |           |            | < 10 mA                   | < 10 mA                   |            |           |  |  |
| Voltage Drop                  |                  |           |            | < 1,8 V (I=100mA)         | < 1,8 V (I=100mA)         |            |           |  |  |
| Operation Led                 |                  |           |            | Yellow                    | Yellow                    |            |           |  |  |
| Switching Frequer             | ncv              |           |            | 300 Hz                    | 300 Hz                    |            |           |  |  |
| Start Up Delay                | icy              |           |            | < 50 ms                   | < 50 ms                   |            |           |  |  |
| Repeatability                 |                  |           |            | < 3%                      | < 3%                      |            |           |  |  |
| Short Circuit Prote           | ection           |           |            | Present (self-resetting)  | Present (self-resetting)  |            |           |  |  |
| Electric Protection           |                  |           |            | Against polarity reversal | Against polarity reversal |            |           |  |  |
| T                             |                  |           |            | inductive loads           | inductive loads           |            |           |  |  |
| Temperature Limit             |                  |           |            | (-25 +70 °C)              | (-25 +70 °C)              |            |           |  |  |
| Protection Degree             |                  |           |            | IP69K<br>                 | IP69K<br>                 |            |           |  |  |
| Cable Length<br>Cable Section |                  |           |            |                           |                           |            |           |  |  |
|                               |                  |           |            | <br>Stainless-Steel       | <br>Stainless-Steel       |            |           |  |  |
| Housing Material              |                  |           |            |                           |                           |            |           |  |  |
| Active face                   |                  |           |            | LCP                       | LCP                       |            |           |  |  |
| Tightening torque             |                  |           |            | 60Nm                      | 60Nm                      |            |           |  |  |
| Weight - Cable Out            |                  |           |            | 470 -                     | 170 -                     |            |           |  |  |
| Weight - Connector            | r Output         |           |            | 170 g                     | 170 g                     |            |           |  |  |





| SHORT STAIN               | LESS STEEL X2             |
|---------------------------|---------------------------|
| FLUSH                     | NON FLUSH                 |
| M12 conn                  | M12 conn                  |
| 15 mm                     | 20 mm                     |
|                           |                           |
|                           | <br>                      |
|                           |                           |
| IS-30-01-S2<br>95B060160  | IS-30-P1-S2<br>95B060200  |
| IS-30-02-52               | IS-30-P2-S2               |
| 95B060170                 |                           |
|                           | 95B060210                 |
| IS-30-03-52               | IS-30-P3-S2               |
| 958060180                 | 95B060220                 |
| IS-30-04-52               | IS-30-P4-S2               |
| 95B060190                 | 95B060230                 |
|                           |                           |
|                           |                           |
| <del></del>               |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
|                           |                           |
| 10-30 Vdc (-15/10%)       | 10-30 Vdc (-15/10%)       |
| < 10%                     | < 10%                     |
| < 10%                     | < 10%                     |
|                           |                           |
| 200 mA                    | 200 mA                    |
|                           |                           |
| < 10 mA                   | < 10 mA                   |
| < 1,2 V (I=100mA)         | < 1,2 V (I=100mA)         |
| Yellow                    | Yellow                    |
| 100 Hz                    | 100 Hz                    |
| < 75 ms                   | < 75 ms                   |
| < 3%                      | < 3%                      |
| Present (self-resetting)  | Present (self-resetting)  |
| Against polarity reversal | Against polarity reversal |
| inductive loads           | inductive loads           |
| (-25 +70 °C)              | (-25 +70 °C)              |
| IP69K                     | IP69K                     |
|                           |                           |
|                           |                           |
| Stainless-Steel           | Stainless-Steel           |
| LCP                       | LCP                       |
| 60Nm                      | 60Nm                      |
|                           |                           |
|                           |                           |
| 170 g                     | 170 g                     |

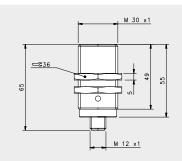
M123 pole

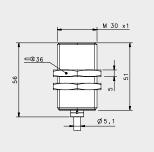


| C          | ONTACT           | CONFIGU | RATION |       |  |
|------------|------------------|---------|--------|-------|--|
| Available  | Contacts numbers |         |        |       |  |
|            | 1                | 2       | 3      | 4     |  |
| (NO or NC) | +                |         | _ =    | NO/NC |  |

## **INDUCTIVE AC M30**





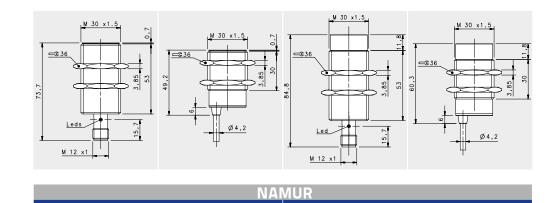


STANDARD VAC

|   |                      |          |                           | FLUSH                     |                       |  |
|---|----------------------|----------|---------------------------|---------------------------|-----------------------|--|
|   |                      |          |                           | M12 conn                  | cable                 |  |
| NOMINAL SWITCHING DISTANCE                      |                      |          | 10 mm                     | 10 mm                     |                       |  |
| 10.30 Vda PNP/NPN /irra                         |                      |          |                           |                           |                       |  |
| 10-30 Vdc                                       | U-30 VAC 4 WIRES     |          | order No.                 |                           |                       |  |
| 10-30 Vdc                                       | D-30 Vdc PNP 3 wires |          |                           |                           |                       |  |
| 10-30 vac                                       | NO Swiles            |          | order No.                 |                           |                       |  |
| 10-30 Vdc                                       | INC orde             |          |                           |                           |                       |  |
|   |                      |          | order No.                 | <del></del>               |                       |  |
| 10-30 Vdc                                       | 0-30 Vdc NPN 3 w     |          | and an Nia                |                           |                       |  |
| NO NO   |                      |          | order No.                 | <br>                      |                       |  |
| 10-30 Vdc                                       | NPN<br>NC            | 3 wires  | order No.                 |                           |                       |  |
|   | PNP                  |          | order No.                 |                           |                       |  |
| 10-30 Vdc                                       | NO-NC                | 4 wires  | order No.                 |                           |                       |  |
|   | NPN                  |          | oraci itai                |                           |                       |  |
| 10-30 Vdc                                       | NO-NC                | 4 wires  | order No.                 |                           |                       |  |
| 40.70.1/4-                                      | NO NC                | 2        |                           |                           |                       |  |
| 10-30 Vdc                                       | NO-NC                | 2 wires  | order No.                 |                           |                       |  |
| 20-250 Vac/Vdc                                  | NO                   | 2 wires  |                           |                           |                       |  |
| 20-230 vac/ vac                                 | INO                  | Z WIIES  | order No.                 |                           |                       |  |
| 20-250 Vac/Vdc                                  | NC                   | 2 wires  |                           |                           |                       |  |
|   |                      |          | order No.                 |                           |                       |  |
| 20-250 Vac                                      | NO                   | 2/3wires |                           | IS-30-A15-S2              | IS-30-A15-03          |  |
|   |                      |          | order No.                 | 95B060820                 | 95B060810<br>         |  |
| 10-30 Vdc                                       | Analog<br>0-20 mA    | 3 wires  | order No.                 | <br>                      |                       |  |
|   |                      |          |                           |                           |                       |  |
| NAMUR amplifier                                 | NAMUR                | 2 wires  | order No.                 |                           |                       |  |
|   |                      |          |                           |                           |                       |  |
| Nominal Voltage                                 |                      |          |                           | 20+250 Vac (50,60 Hz)     | 20+250 Vac (50,60 Hz) |  |
| Residual Ripple                                 |                      |          |                           | < 10%                     | < 10%                 |  |
| Hysteresis                                      |                      |          |                           | < 10%                     | < 10%                 |  |
| Max. Output Curre                               |                      |          |                           | 500 mA, inrush:1,5A       | 500 mA, inrush:1,5A   |  |
| Min. Output Curre                               | ent                  |          |                           | 20 mA                     | 20 mA                 |  |
| Residual Current                                |                      |          |                           | < 0,7 mA                  | < 0,7 mA              |  |
| Voltage Drop                                    |                      |          |                           | < 4 V (I=100mA)           | < 4 V (I=100mA)       |  |
| Operation Led                                   |                      |          |                           | Yellow                    | Yellow                |  |
| Switching Freque                                | ncy                  |          |                           | 25 Hz                     | 25 Hz                 |  |
| Start Up Delay                                  |                      |          |                           | < 300 ms<br>5%            | < 300 ms<br>5%        |  |
| Repeatability                                   |                      |          | Present (self-resetting)  | Present (self-resetting)  |                       |  |
| Short Circuit Protection                        |                      |          | Against polarity reversal | Against polarity reversal |                       |  |
| Electric Protection                             |                      |          | inductive loads           | inductive loads           |                       |  |
| Temperature Limit                               |                      |          | (-25 +70 °C)              | (-25 +70 °C)              |                       |  |
| Protection Degree                               |                      |          | IP67 IP67                 |                           |                       |  |
| Cable Length                                    |                      |          | 2 m                       |                           |                       |  |
| Cable Section                                   |                      |          |                           | 2 x 0,25 mm²              |                       |  |
| Housing Material                                |                      |          | Nickel-plated brass       | Nickel-plated brass       |                       |  |
| Active face                                     |                      |          | PA 16                     | PA 16                     |                       |  |
| Tightening torque                               |                      |          | 70Nm                      | 70Nm                      |                       |  |
| Weight - Cable Output Weight - Connector Output |                      |          |                           |                           | 145g                  |  |
| vveignt - Connecto                              | r Output             |          |                           | 95g                       |                       |  |

### **NAMUR M30**





|                                 |                   |            |           | FLUSH                     |                           | NON FLUSH                 |                           |
|---------------------------------|-------------------|------------|-----------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                 |                   |            |           | M12 conn                  | cable                     | M12 conn                  | cable                     |
| NOMINAL SWITCHING DISTANCE      |                   |            |           | 10mm                      | 10mm                      | 15mm                      | 15mm                      |
|                                 | PNP/NPN           |            |           |                           |                           |                           |                           |
| 10-30 Vdc                       | NO-NC 4 wir       | 4 wires    | order No. |                           |                           |                           |                           |
| 10-30 Vdc                       | PNP<br>NO 3 wires | 2          |           |                           |                           |                           |                           |
| 10-30 Vac                       |                   | 3 wires    | order No. |                           |                           |                           |                           |
| 10-30 Vdc                       | PNP               | ⊰ \M/IrΩC  |           |                           |                           |                           |                           |
| 10-30 Vac                       | NC                |            | order No. |                           |                           |                           |                           |
| 10-30 Vdc                       | NPN               | 3 wires    |           |                           |                           |                           |                           |
|                                 | NO                |            | order No. |                           |                           |                           |                           |
| 10-30 Vdc                       | NPN               | 3 wires    |           |                           |                           |                           |                           |
|                                 | NC                |            | order No. |                           |                           |                           |                           |
| 10-30 Vdc                       | PNP<br>NO-NC      | 4 wires    | andan Na  |                           |                           |                           |                           |
|                                 |                   |            | order No. |                           |                           |                           |                           |
| 10-30 Vdc                       | NPN<br>NO-NC      | 4 wires    | order No. |                           |                           |                           |                           |
|                                 | 140 140           |            | order No. |                           |                           |                           |                           |
| 10-30 Vdc                       | NO-NC             | 2 wires    | order No. |                           |                           |                           |                           |
|                                 |                   |            | 0.00      |                           |                           |                           |                           |
| 20-250 Vac/Vdc                  | NO                | 2 wires    | order No. |                           |                           |                           |                           |
| 20.2501/ ///                    | NG                | <b>.</b> . |           |                           |                           |                           |                           |
| 20-250 Vac/Vdc                  | NC                | 2 wires    | order No. |                           |                           |                           |                           |
| 20-250 Vac                      | NO                | 2/2 :      |           |                           |                           |                           |                           |
| 20-250 Vac                      | NO                | 2/3 wires  | order No. |                           |                           |                           |                           |
| 10-30 Vdc                       | Analog            | 3 wires    |           |                           |                           |                           |                           |
| 10 30 vac                       | 0-20 mA           | J WIIC3    | order No. |                           |                           |                           |                           |
| NAMUR amplifier                 | NAMUR             | 2 wires    |           | IS-30-A20-S2              | IS-30-A20-03              | IS-30-C20-S2              | IS-30-C20-03              |
|                                 |                   |            | order No. | 95B064630                 | 95B064610                 | 95B064640                 | 95B064620                 |
|                                 |                   |            |           |                           |                           |                           |                           |
| Nominal Voltage                 |                   |            |           | 7,7 + 9 V DC              |
| Residual Ripple                 |                   |            |           | < 10%                     | < 10%                     | < 10%                     | < 10%                     |
| Hysteresis                      |                   |            |           | < 10%                     | < 10%                     | < 10%                     | < 10%                     |
| Max. Output Curren              |                   |            |           | < 3 mA (metal absent)     |
| Min. Output Currer              | זנ                |            |           | < 1 mA (metal present)    |
| Residual Current                |                   |            |           |                           |                           |                           |                           |
| Voltage Drop                    |                   |            |           |                           |                           |                           |                           |
| Operation Led Switching Frequen | CV                |            |           | 500 Hz                    | 500 Hz                    | 500 Hz                    | 500 Hz                    |
| Start Up Delay                  | cy                |            |           | 300112                    | 300 112                   | 300112                    | 300112                    |
| Repeatability                   |                   |            |           | < 3%                      | < 3%                      | < 3%                      | < 3%                      |
| Short Circuit Prote             | ction             |            |           | Present (self-resetting)  | Present (self-resetting)  | Present (self-resetting)  | Present (self-resetting)  |
| Short circuit i rote            | CCIOII            |            |           | Against polarity reversal | Against polarity reversal | Against polarity reversal | Against polarity reversal |
| Electric Protection             |                   |            |           | inductive loads           | inductive loads           | inductive loads           | inductive loads           |
| Temperature Limit               |                   |            |           | (-25 +60 °C)              | (-25 +60 °C)              | (-25 +60 °C)              | (-25 +60 °C)              |
| Protection Degree               |                   |            |           | IP67                      | IP67                      | IP67                      | IP67                      |
| Cable Length                    |                   |            |           |                           | 2 m                       |                           | 2 m                       |
| Cable Section                   |                   |            |           |                           | 2 x 0,25 mm²              |                           | 2 x 0,25 mm²              |
| Housing Material                |                   |            |           | Nickel-plated brass       | Nickel-plated brass       | Nickel-plated brass       | Nickel-plated brass       |
| Active face                     |                   |            |           | LCP                       | LCP                       | LCP                       | LCP                       |
| Tightening torque               |                   |            |           | 60Nm                      | 60Nm                      | 60Nm                      | 60Nm                      |
| Weight - Cable Out              |                   |            |           |                           | 210 g                     |                           | 210 g                     |
| Weight - Connector              | Output            |            |           | 170 g                     |                           | 170 g                     |                           |