**SK30 distribution box, top mounting M12-A sockets, built-in control cable**

High density distribution box, from 6 to 15 sockets, 1 signal each socket; with or without signalling Led; for connection of sensors, actuators, etc.; special circuits on request.

Scatola di distribuzione alta densità, da 6 a 15 prese, 1 segnale ciascuna presa; con o senza Led di segnalazione; per collegamento sensori, attuatori, ecc.; circuiti speciali a richiesta.

At the first order, the sales service will communicate also a 5-character short code and the product characteristics will be agreed with a specific drawing.

At momento del primo ordine, il servizio vendite comunicherà anche un codice breve di 5 caratteri e le caratteristiche del prodotto saranno concordate con un disegno specifico.

### General characteristics

- **Protection degree**
  - IEC 60529: IP67 (IP68 upon request) or IP65,
  - according to cable characteristics in table B, column IP (a3);
  - body max current @ 40°C: 6A for common wires, 4A each socket, 2A each signal, higher currents available upon request;
  - housing oil resistance: very good;
  - housing material: TPU (polyetheretherketone) or nickel and golden plated CuZn contacts;
  - locking ring material: nickel plated brass (for stainless steel, see table D);
  - IP68 upon request) or IP65,
  - according to cable characteristics in table B, column IP (a3);
  - body max current @ 40°C: 6A for common wires, 4A each socket, 2A each signal, higher currents available upon request;
  - housing oil resistance: very good;
  - housing material: TPU (polyetheretherketone) or nickel and golden plated CuZn contacts;
  - locking ring material: nickel plated brass (for stainless steel, see table D);

### Material characteristics

- **Material housing oil resistance**: very good
- **Body max temperature**:
  - according to cable characteristics in table B, column IP (a3);
  - body max current @ 40°C: 6A for common wires, 4A each socket, 2A each signal, higher currents available upon request;
- **Material**:
  - TPU (polyetheretherketone) or nickel and golden plated CuZn contacts;
  - locking ring material: nickel plated brass (for stainless steel, see table D);

### Signal characteristic

- **Voltage**: (pollution deg.)
  - 1 Vdc / Vac
  - 1…60 (3)
  - 1…135 (2)
  - Vdc / Vac
  - max power potential max 200 W
  - PNP
  - cable control

### Control characteristic

- **Voltage**: (pollution deg.)
  - 1 Vdc
  - 1…60 (3)
  - 1…135 (2)
  - Vdc
  - max power potential max 200 W
  - PNP
  - cable control

### Connection characteristic

- **Cable control**
  - 1 Vdc
  - 1…60 (3)
  - 1…135 (2)
  - Vdc
  - max power potential max 200 W
  - PNP
  - cable control

### Source characteristic

- **Voltage**: (pollution deg.)
  - 1 Vdc
  - 1…60 (3)
  - 1…135 (2)
  - Vdc
  - max power potential max 200 W
  - PNP
  - cable control

### Technical characteristic

- **Technical characteristic**
  - 1 Vdc
  - 1…60 (3)
  - 1…135 (2)
  - Vdc
  - max power potential max 200 W
  - PNP
  - cable control

### Code characteristic

- **Code characteristic**
  - 1 Vdc
  - 1…60 (3)
  - 1…135 (2)
  - Vdc
  - max power potential max 200 W
  - PNP
  - cable control

### Table characteristic

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Code (a4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 sockets</td>
<td>9 prese</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 sockets</td>
<td>6 prese</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 sockets</td>
<td>10 prese</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 sockets</td>
<td>15 prese</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a1) yellow codes are preferred; columns B, C show standard versions, see the following tables for more data and available options;

(a2) the protection degree level is guaranteed only when correctly assembled with Shield’s counterpart;

(a3) the pollution degree is guaranteed only when correctly assembled with Shield’s counterpart;

(a4) see table H for wires connection; for stainless steel: see table D;

(a5) the allowed voltage depends also from the pollution degree of the working environment, therefore by the contamination risk of gaseous, liquid or solid foreign matter (iec 60664-1);

(a6) see table H for wires connection; for stainless steel: see table D;

(a7) the allowed voltage depends also from the pollution degree of the working environment, therefore by the contamination risk of gaseous, liquid or solid foreign matter (iec 60664-1);

2 = only non-conductive pollution and occasionally temporary condensation; 3 = wet or dry conductive pollution;

2 = only non-conductive pollution and occasionally temporary condensation; 3 = wet or dry conductive pollution;

2 = only non-conductive pollution and occasionally temporary condensation; 3 = wet or dry conductive pollution;

2 = only non-conductive pollution and occasionally temporary condensation; 3 = wet or dry conductive pollution;

2 = only non-conductive pollution and occasionally temporary condensation; 3 = wet or dry conductive pollution;

2 = only non-conductive pollution and occasionally temporary condensation; 3 = wet or dry conductive pollution;
**B**

| B | cable code | 3P max | socket | current quantity | press | max | voltage | wires | x size | cable | material | material | cable | reference | riferimento | smooth | colour | colour | equal | cable | class | cable | materials | cable | data sheet | data sheet |
| 837 | 67 | 6 | 8.7 (4.0) | 0.06 (0.13) | 2 x 1 x 0.75 + 6 x 0.34 | pur pvc | LIY11Y | bk 9005 | C | 6 | -25...+80 | MH-PP |
| 837 | 67 | 9 | 10.4 (4.0) | 0.05 (0.09) | 2 x 1 x 0.75 + 10 x 0.50 | pur pvc | LIY11Y | bk 9005 | C | 6 | -25...+80 | MH-PP |
| 838 | 67 | 12 | 8.7 (4.0) | 0.06 (0.13) | 2 x 1 x 0.75 + 12 x 0.34 | pur pvc | LIY11Y | bk 9005 | C | 6 | -25...+80 | MH-PP |
| 845 | 67 | 15 | 8.7 (4.0) | 0.06 (0.13) | 2 x 1 x 0.75 + 16 x 0.34 | pvc | 60032-32-IEC | gy 7035 | C | 5 | -15...+70 | MH-PN |
| 875 | 67 | 15 | 10.4 (4.0) | 0.06 (0.09) | 2 x 1 x 1.00 + 16 x 0.50 | pvc | 60032-32-IEC | bk 9005 | C | 6 | -25...+80 | MH-PP |

(b1) other cables are available on request such as: irradiated, pur, teflon, shielded cables, etc. (see cable catalogue).
All other cables are available on request such as: irradiated, pur, teflon, shielded cables, etc. (see cable catalogue).

(b2) IEC norms allow maximum values drop on the cable from 3% to 5% of rated voltage (for calculation see general information). IEC norms allow maximum values drop on the cable from 3% to 5% of rated voltage (for calculation see general information).

(b3) example: 3 = three wires; 2+1 = two wires + green/yellow ground; esempio: 3 = tre conduttori; 2+1 = due conduttori + terra giallo/verde.

(b4) bigger wire value (smaller wire value); valore del filo più grande (valore del filo più piccolo).

(b5) wires colour; N = numbered wires + grey/le; C = din 47100 colours; colore fili: N = fili numerati + grigio/verde; C = crom din 47100.

**C**

<table>
<thead>
<tr>
<th>C</th>
<th>length code</th>
<th>codice lunghezza</th>
<th>codice lunghezza cavo</th>
<th>m</th>
<th>3</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000</td>
<td>5000</td>
<td>MT10</td>
<td>MT15</td>
<td>MT20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(c1) any cable length is possible for orders over 100 pieces; possibile qualsiasi lunghezza di cavo per ordini superiori a 100 pezzi.

**D**

<table>
<thead>
<tr>
<th>D</th>
<th>variant code</th>
<th>codice variante</th>
<th>empty space or 000</th>
<th>spazio vuoto o 000</th>
<th>005</th>
</tr>
</thead>
<tbody>
<tr>
<td>on request</td>
<td>no variante</td>
<td>nessuna variante</td>
<td>stainless steel ring</td>
<td>filetto acciaio inox</td>
<td></td>
</tr>
</tbody>
</table>

**E**

<table>
<thead>
<tr>
<th>E</th>
<th>description</th>
<th>descrizione</th>
<th>empty space or 000</th>
<th>spazio vuoto or 000</th>
<th>HEJM</th>
<th>HCHR</th>
<th>HJHM</th>
<th>HOUL</th>
</tr>
</thead>
<tbody>
<tr>
<td>only stripped cable</td>
<td>solo cavo squarciato</td>
<td>male contacts, M23 male thread</td>
<td>contatti maschio, filetto M23 maschio</td>
<td>14p male contacts, M23 female thread</td>
<td>contatto maschio/14p, filetto maschio 7/8&quot;</td>
<td>14p male contacts, M23 female thread</td>
<td>contatto maschio/14p, filetto femmina 7/8&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**H**

<table>
<thead>
<tr>
<th>H</th>
<th>6 sockets</th>
<th>9 sockets</th>
<th>12 sockets</th>
<th>15 sockets</th>
</tr>
</thead>
<tbody>
<tr>
<td>socket terminal pressa</td>
<td>terminal pressa</td>
<td>terminal pressa</td>
<td>terminal pressa</td>
<td>terminal pressa</td>
</tr>
<tr>
<td>9-wire control circuit</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
</tr>
<tr>
<td>12-wire control circuit</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
</tr>
<tr>
<td>15-wire control circuit</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
</tr>
<tr>
<td>18-wire control circuit</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
<td>7/8&quot;-14p</td>
</tr>
</tbody>
</table>

**ACCESSORIES / ACCESSORI**

- Dust protection cap / tampone antipolvere: 1407 M12
- Thread / filetto: M12 x 1
- Packaging / confezione: 100

---

check updated technical characteristics on our web site | verificare caratteristiche tecniche aggiornate sul nostro sito web

www.shield.net

SK30

43-35
SK30 distribution box, top mounting M12-A sockets, built-in control cable

SK30 scatola distribuzione, prese M12-A, montaggio da sopra, cavo di controllo integrato

High density distribution box from 6 to 15 sockets, up to 2 signals each socket; with or without signalling LED; for connection of sensors, actuators, etc.; special circuits on request.

Scatola di distribuzione alta densità, da 6 a 15 prese, fino a 2 segnali ciascuna presa; con o senza Led di segnalazione; per collegamento sensori, attuatori, ecc.; circuiti speciali a richiesta.

Make the description code in a few steps

At the first order, the sales service will communicate also a 5-character short code and the product characteristics will be agreed with a specific drawing.

At the moment of the first order, the sales service will communicate also a few steps to create the description code.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>SK30N7 00230</td>
<td>834</td>
<td>5000</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SK30N7 00230</td>
<td>846</td>
<td>5000</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>SK30N7 00230</td>
<td>230</td>
<td>5000</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>SK30N7 00230</td>
<td>211</td>
<td>5000</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>SK30N7 06430</td>
<td>834</td>
<td>5000</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SK30N7 06430</td>
<td>846</td>
<td>5000</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>SK30N7 06430</td>
<td>230</td>
<td>5000</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>SK30N7 06430</td>
<td>211</td>
<td>5000</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

Yellow codes are preferred; columns B, C show standard versions, see the following tables for more data and available options.

- The protection degree level is guaranteed only when correctly assembled with Shield’s counterpart; il livello del grado di protezione è garantito solo quando correttamente montato con la controparte Shield.
- (a5) see table in for wires connection; vedere tabella A per collegamento fili.
- (a1) the allowed voltage depends also from the pollution degree of the working environment, therefore by the contamination risk of gaseous, liquid or solid foreign matter (iec 60664-1): 2 = only non-conductive pollution and occasionally temporary condensation; 3 = wet or dry conductive pollution; 2 = solo inquinamento non conduttivo e occasionalmente condensa temporanea; 3 = inquinamento conduttivo secco o umido.
- General characteristics protection degree IEC 60529: IP67 (IP68 upon request) or IP65, according to cable characteristics in table B, column IP (a3); body temperature: -25…80°C (max 70°C when there are electronic components); body max current @ 40°C: 8 A for common wires, 4 A each socket, 2A each signal, higher currents available upon request; housing oil resistance: very good; materials: TPU (polyurethane) housing; nickel and golden plated CuZn contacts; locking ring material: nickel plated brass (for stainless steel, see table D) Caratteristiche generali grado protezione IEC 60529: IP67 (IP68 su richiesta) oppure IP65, secondo le caratteristiche cavo in tabella B, colonna IP (a3); temperatura corpo: -25…80°C (max 70°C quando ci sono componenti elettronici); corrente max corpo @ 40°C: 8 A per fili comuni, 4 A per ogni presa, 2 A per segnali, correnti superiori disponibili su richiesta; resistenza olio del rivestimento: ottima; materiali: rivestimento in TPU (poliuretano); contatti in CuZn nichelato e dorato; materiale ghiera di fissaggio: ottone nichelato (per inox vedere tabella D)

At the moment the first order, the sales service will communicate also a 5-character short code and the product characteristics will be agreed with a specific drawing. At the moment the first order, the sales service will communicate also a few steps to create the description code.
ABBREVIATIONS: wh = white, bn = brown, gr = green, ye = yellow, gy = grey, pk = pink, bu = blue, rd = red, bk = black, vt = violet, og = orange, n1, n2, etc. = numbered wires; PE = ground terminal.

ABBREVIATIONS: wh = bianco, bn = marrone, gr = verde, ye = giallo, gy = grigio, pk = rosa, bu = blu, rd = rosso, bk = nero, vt = viola, og = arancio; n1, n2, ecc. = fili numerati; PE = terminale terra.

SOLVENTS / ACCESSORIES: check updated technical characteristics on our web site | verificare caratteristiche tecniche aggiornate sul nostro sito web

www.shield.net

SK30
43-37