

HG TouchScreens
IDEC's operator interface products offer perfect solutions for your display needs.
From the large 12.1 "TFT LCD screen, to Fompact 5.7" STN LCD, our screens support 256 colors with high resolutions, giving you sharp images and excellent visibility. When combined with our powerful WindO//-NV2 software, you can create colorful graphical interfaces for easier production supervision.
With up to 8 MB of memory and a 200 Mhz . 32 -bit RISC CPU, IDEC Touchscreens put control, power and speed at your fingertips.

## 414:

PS5R Slim Line Power Supplies IDEC PS5R Slim Line power supplies have
all the features, all the power, and only half all the features, all the power, and only half
the size of traditional power supplies. Save he size of traditional power supplies. Save
valuable DIN Rail space with the $30 \mathrm{~W}, 60 \mathrm{~W}$, $90 \mathrm{~W}, 120 \mathrm{~W}$, or 240 W models which can fit any of your power needs. The PS5R Slim Line models are UL508 and UL1604 listed for hazardous locations. The 30 W and 60 W models are also NEC Class 2 rated. The 120 W and 240 W mdels comply with $\Phi M$ F47 sag immunity requirements.

## Industrial Control \& Automation Catalog

DEC's new Industrial Control and Automation
catalog (U908) is here! Inside you will find
800 pages of everything you need from
ouchscreen interfaces and programmable
ontrollers, to relays, signal lights, switches Master Price List and catalog PDFs are also available for your convenience.

## IIDEC

Think Automation and beyond...


Think Automation and beyond...

WorldWide Locations

| USA | Japan | China |
| :---: | :---: | :---: |
| Canada | UK | Singapore |
| Australia | Germany | Taiwan |
|  | Hong Kong |  |
| www.idec.com |  |  |
| ©2005 IDEC Corporation. All Rights Reserved. Catalog No. XW9Y-B100-211/05 7.5K |  |  |

 IDEC E-Stop Switches

Spec Tech Industrial 203 Vest Ave. Valley Park, MO 63088 Phone: 888 SPECTECH Email: sales@spectechind.com

## Safest Emergency Stop Switches in the World!

The emergency stop button is a critical component on any machine because its malfunction can cause equipment damage personal injury, down time, etc., and may even lead to catastrophic failure like fires and life-threatening accidents. Malfunctions caused by dislocation of the ontact blocks can occur due to improp installation of the switch, accidental removal of the co froc block, improper transportation of a finished product.

To reduce the risk of potential disaster DEC has designed the XA/XW series -Stop switches. They reduce the impact of these failures, and not only comply (ISO13850 and EN60947-5-5), but actually exceed the safety standards by automatically turning off when a part ails or the contact block and the actuator are improperly installed. By surpassing the current international standards, the safest switches.

IDEC has manufactured a variety of other innovative, high quality Emergency Stop
switches for the last 50 years. For example, switches for the last 50 years. For example, "borrowing" the unique HW 22 mm Unibody E-Stop has no removable contacts. Another example is the compact HA1E 16 mm E -Stop, which is the shortest behind-the-panel E-Stop to comply with the Direct Contact Opening directive
(IEC60947-5-1, -5) IDEC is consistently leading the market in new technolly innovation for machine operator safety


## Revolutionary "Safe Break Action" Design

The two new IDEC Emergency Stop switches, the XA \& XW series, include revolutionary new technology that will change the way E -Stop switches are designed. This "safe break action" concept provides greater levels of human safety and is the first of its kind in the world!

Conventional E-Stop switches are designed with spring pressure on the Normally Closed (NC) contacts, keeping them in the closed position and allowing the machine to operate. Improper installation or excessive force to the stop button in an emergency may break or dislodge a vital part, causing the spring loaded contact to stay closed. This situation renders the E-Stop incapable of stopping the machine, and can lead to catastrophic events, personal injury and possible loss of life.
This one-of-a-kind "safe break action" design, found only in the IDEC XA \& XW series, reverses the energy direction and uses the spring-pressure to assure that the NC contacts will open if the emergency switch is damaged rebly IDEC quity this is the E-Stop swith roumat in life the inin situan

Both the XA and XW switches include up to four contacts in a very compact package. In today's automated world, more customers are requiring E -Stop switches with at least three contacts. (Two of the contacts trip the power and the third contact is used to alert a safety-monitoring relay.) Both the XA and XW series switches offer up to four "safe-break" contacts with a depth behind the panel that is half the size of conventional E -Stop switches. This means that there is an additional contact available and the switches can be used in Level 4 safety category applications.

IDEC's new E-Stop switches are secured from the rear of the control panel so that the E -Stop cannot be removed from the front. Another unique feature of the XA \& XW E-Stop switches is that either a push-turn or push-pull reset method can be used to reset the switches. This eliminates any possible confusion for operators when resetting the switch. The durability and quality of these new E -Stop switches make them extremely reliable. They can withstand the increased high stress caused by panic or a reaction to a emergency situation.

Safety
The emergency stop button is a critical component on any machine because its failure has the potential to cause severe injury or loss of life. To reduce the risk of potential disaster, IDEC has designed the XA/XW series E-Stops. The XA/XW Emergency Stop switches surpass the requirements of current international standards making


Innovation
The XA/XW series of E-Stops utilize a revolutionary "safe break action" design that forcefully opens the NC design that forcefully opens the NC
contacts, even if they are welded, and stops the machine. This one-of-a-kind design reverses the energy direction and actually uses the spring-pressure to ensure that the NC contacts will open if the emergency switch is damaged the contact blocks break off due to excessive force.

Variety
As a global leader of switches, IDEC manufactures a large selection of E -Stop for a variety of applications. If you need tation there is E -Stop or an E-Stop designs available. With additional choices from Illuminated Push-Pull to the Push Lock-Key Reset, PCB Terminals to Screw Terminals, IDEC has just the right E-Stop for you.


TUV


C

## IIDEC

When Safety Matters. . . Reach for the World's Safest E-Stop


XA \& XW Series, The Safe Break Action E-Stops!
Internal view while removing the contact block


Reach for the "Safe Break Action"
When the contact block is removed from the operator the main contact (NC) is forced to open (OFF). When removing the contact block, the cam provides a direct opening action to open the contact.

Important Safety Information

XA/XW E-Stops have lower internal energy in the "Locked" (Latching) position than in the "Normal" (Reset) position. When the switch is damaged from an excessive shock, the main contact (NC) moves toward the OFF (Safe) position.

Direct Opening Action
Even if the contacts are welded, the force applied on the button directly opens the contact.

Rated Insulation Voltage: 250V minimum Rated Thermal Current: 2.5A minimum

Safety Interlock Mechanism Contacts are opened when the operator is locked, and remain opened until the operator is unlocked intentionally. (IEC60947-5; 6:2)


Two E-Stops in One


Compact



## IDEC Traditional E-Stops

HA 16mm E-Stop


IDEC also offers a wide range of traditional E -Stops. You can count on IDEC to maintain the highest quality and innovation in creating the best E -Stops available. There are a large number of sizes, applications, locking mechanisms, releases, designs and illumination choices. Without a doubt, IDEC has the right E-Stop for you.

IDEC Innovations and Technologies:

- Direct Contact Opening
(IEC60947-5-5, IEC60947-5-1 Annex K)
This positive action design ensures that the machine operator will absolutely be able to shut off the machine. Even if the contacts are welded, the force applied on the button directly opens the contact.
- Safety Interlock Mechanism
(IEC60947-5-5, EN418, ISO13850)
IDEC Emergency stop switches are "fool-proof" or
"tease-proof," meaning that the switch, when intended to be manually reset. Normally closed (NC) contacts are opened when the operator is locked, and will remain open until the operator is unlocked intentionally.
- Unibody Version

An innovative design for E-Stops. The Unibody models are made with fixed contacts within single molded units that make it impossible for someone to "borrow" contacts from the E-Stop.
${ }^{-14}$ ) $(\epsilon \Theta)$

TW 22mm E-Stops 40mm Mushrooms

## HA 16 mm Pushlock Turn Reset

| 29mm Mushroom |  |
| :--- | :--- |
| Contacts | Plastic Bezel |
| 2NC Solder Terminals | HA1B-V2E2R |
| 2NC PCB Terminals | HA1B-V2E2VR |
| 1NC Short Body Solder Terminals | HA1E-V2S1R |
| 2NC Short Body Solder Terminals | HA1E-V2S2R |

HW 22mm \& HN 30mm Unibody E-Stops

|  | HW 22mm Unibody Pushlock Turn Reset <br> 40mm Mushroom |
| :--- | :--- |
| Contacts | Plastic Bezel |
| 1NO-1NC | HWIE-BV4F11-R |
| 2NC | HW1E-BV4FO2-R |


| HW 22mm Illuminated Unibody Pushlock Turn Reset 40mm Mushroom (24V AC/DC) |  |
| :---: | :---: |
| Contacts | Plastic Bezel |
| 1NO-1NC (INC) | HW1E-LV4F110-R-24V |
| 2NC (INC) | HW1E-LV4F02a-R-24V |
| 1NO-INC (LED) | HW1E-LV4F110D-R-24V |
| C (LED) | HW1E-LV4FO2OD-R-24V |


| HN 30mm Unibody Pushlock Turn Reset <br> 40mm Mushroom |  |
| :--- | :--- |
| Contacts | Plastic Bezel |
| 1NO-1NC | HN1E-BV4F11-R |
| 2NC | HN1E-BV4FO2-R |

HN 30mm Illuminated Unibody Pushlock Turn Reset 40mm Mushroom (24V AC/DC)

| Contacts | Plastic Bezel |
| :--- | :--- |
| 1NO-1NC (INC) | HN1E-LV4F110-R-24V |
| 2NC (INC) | HN1E-BV4FO2O-R-24V |
| 1NO-1NC (LED) | HN1E-LV4F110D-R-R4V |
| 2NC (LLED) | HN1E-BV4F020D-R-24V |



| TW 22mm Pushlock Turn Reset |  |
| :--- | :--- |
| Contacts | Part Number |
| 1NO | AVW410-R |
| 1NC | AVW401-R |
| 1NO-1NC | AVW411-R |
| 2NC | AVW402-R |

## TW 22mm Push-Pull

| CWi2mm Push-Puil |  |
| :--- | :--- |
| Contacts | Part Number |
| 1NO | AYW410-R |
| 1NC | AYW401-R |
| 1NO-1NC | AYW411-R |
| 2NC | AYW402-R |



| TWTD 30mm Pushlock Turn Reset |  |
| :--- | :--- |
| Contacts | Part Number |
| 1NO | AVD310N-R |
| 1NC | AVD301N-R |
| 1NO-1NC | AVD311N-R |
| 2NC | AVD302N-R |



TWTD 30 mm Push-Pull

| TWTD 30mm Illuminated Pushlock Turn Reset (24V AC/DC) |  |
| :---: | :---: |
| Contacts | Part Number |
| 1NO-1NC (INC) | AVLD39911N-R-24V |
| 2NC (INC) | AVLD39902N-R-24V |
| 1NO-1NC (LED) | AVLD39911DN-R-24V |
| 2NC (LED) | AVLD39902DN-R-24V |
| TWTD 30mm Illuminated Push-Pull (24V AC/DC) |  |
| Contacts | Part Number |
| $1 \mathrm{NO}-1 \mathrm{NC}$ (INC) | AYLD39911N-R-24V |
| 2 NC ( INC) | AYLD39902N-R-24V |
| 1NO-1NC (LED) | AYLD39911DN-R-24V |
| 2NC (LED) | AYLD39902DN-R-24V |

## TWTD 30mm E-Stops 40mm Mushrooms



Conta

|  | Part Numbe <br> 1NO |
| :--- | :--- |
| AYD31ON-R |  |
| 1NC | AYD301N-R |
| 1NO-1NC | AYDO31N-R | LO399020N-R-24V

## HW 40mm E-Stop Station

Hw Series E

| Style | Contact | Plastic Bezel | Metal Bezel |
| :---: | :---: | :---: | :---: |
| 40mm Pushlock Turn Reset | 1NO-1NC | HW1X-BV411-R | HW4X-Bv411-R |
|  | 2NC | HW1X-BV402-R | HW4X-BV402-R |
| 40mm Push-Pull Reset | 1NO-1NC | HW1X-BY411-R | HW4X-BY411-R |
|  | 2NC | HW1X-BY402-R | HW4X-By402-R |
| 40mm Pushlock Key Reset | 1NO-1NC | HW1X-BX411-R | HW4X-BX411-R |
|  | 2NC | HWIX-BX402-R | HW4X-Bx402-R |

## HW 22 mm E-Stops

HW 22mm Pushlock Turn Reset
40 mm Mushroom


| Contacts | Plastic Bezel | Metal Bezel |  |
| :--- | :--- | :--- | :--- |
| 1NO | HW1B-V4F10-R | HW4B-V4F10-R |  |

HW 22mm Pushlock Key Reset 40mm Mushroom

## HW 22mm Push-Pull 40mm Mushroom

| Contacts | Plastic Bezel | Metal Bezel |
| :--- | :--- | :--- |
| 1NO | HW1B-Y2F10-R | HW4B-Y2F10-R |
| 1NC | HW1B-Y2FO1-R | HW4B-Y2F01-R |
| 1NO-1NC | HW1B-Y2F11-R | HW4B-Y2F11-R |

$2 N \mathrm{HW} \quad$ HW1B-Y2F02-R HW4B-Y2F02-R

HW 22mm Pushlock Turn Reset

| 40mm Yellow |  | Mushroom* |
| :--- | :--- | :--- |
| Contacts | Plastic Bezel | Metal Bezel |
| 1NO | HW1B-V4F10-Y | HW4B-V4F10-Y |
| 1NC | HW1B-V4FO1-Y | HW4B-V4FO1-Y |
| 1NO-1NC | HW1B-V4F11-Y | HW4B-V4F11-Y |
| 2NC | HW1B-V4F02-Y | HW4B-V4F02-Y |
| *Yellow button should not be used as an emergency stop switch |  |  |



60mm Jub Murn Reset
Somm Jumbo Mushroom

| Contacts | Plastic Bezel |
| :--- | :--- |
| 1NO | HW1B-V5F10-R |
| 1NC | HW1B-V5FO-R |
| 1NO-1NC | HW1B-V5F11-R |
| 2NC | HW1B-V5FO2-R |

## E-Stop Accessories



E-Stop Nameplates

| Size and Style | Part Number | ID | OD |  |
| :---: | :---: | :---: | :---: | :---: |
| 16 mm Blank 060 mm | halva-o | 16 mm | 60 mm |  |
| 16 mm "Emergency Stop" 660 mm | HaAva-27 | 16 mm | 60 mm |  |
| 22 mm Blank 860 mm | HWAV-0 | 22mm | 60 mm |  |
| 22 mm "Emergency Stop" 660 mm | HWAV-27 | 22 mm | 60 mm |  |
| 22 mm "Emergency Stop" 080 mm For Jumbo Mushroom | HWAV5-27 | 22 mm | 80 mm |  |

## Connection Diagrams and Panel Cutouts



