

DOLD

Röle Modülleri

Elektronik anahtarlama modülleri kullanılırken elektrik güvenliği daha da önemlidir. Dold, uygulamanız için en uygun çözümü sunar.

İnsanların, makinelerin ve ürünlerin yaralanmaya veya hasara karşı korunması gereken her yerde ve verimlilik artarsa, DOLD röle modülleri ve kilitleri on yıllardır dünya çapında başarılı bir şekilde kullanılmaktadır. Standart işlemlere sahip çeşitli cihazlara ek olarak, DOLD kişiye özel ve ekonomik problem çözme çözümleri geliştirme konusunda uzun yıllara dayanan deneyime geri dönebilir.

Safety technology





Monitoring devices



Power electronics





Control devices



Timers





Installation electronics

Relay Modules / Safety technology

Güvenlik teknolojisi

SAFEMASTER - Her fonksiyon için inovasyon çözümleri

Güvenlik teknolojisi, DOLD'da anahtarlama cihazlarının iş alanının önemli bir ürün grubudur. On iki yıl önce iki elli bir anahtar rölesinin geliştirilmesi ile başlayan şey, son 20 yılda kararlı bir şekilde sürdürülmüş ve evrensel bir cihaz programına genişletilmiştir. Bugün, DOLD güvenlik anahtarlama cihazları acil durdurma, iki elle anahtarlama, güvenlik matı, güvenlik kapısı, ışık bariyeri ve daha fazlası gibi çeşitli güvenlik işlevlerini izler.





Safety switching devices

Extension / delay time / interface modules

Standstill / speed monitoring





Multifunctional safety solutions

Wireless Safety System

Special devices

Relay Modules / Safety technology / Safety switching devices

Emniyet röleleri

Her zorluk için uygun çözüm

DOLD SAFEMASTER ailesinden güvenlik anahtarlama cihazları, acil durdurma, iki elle anahtarlama, güvenlik matı, ışık bariyeri ve daha fazlası gibi çeşitli güvenlik işlevlerini izler. Tek işlevli emniyet anahtarlama cihazlarından saha veri yolu bağlantılı çok fonksiyonlu modüler emniyet sistemine kadar, tüm ürünler tek bir amaca hizmet eder: insanların ve makinelerin ödün vermeden korunması. Makine ve sistem üreticileri ve operatörleri, çok sayıda düzenlemeyi karşılaması gereken güvenlik odaklı anahtarlama cihazları geliştirme ve / veya çalıştırma zorluğu ile karşı karşıyadır. DOLD, işlev ve uygun maliyetli çözümler gerçekleştirmek için kullanabileceğiniz örnek testli modüllerle sizi destekler.





Emergency stop modules

Safety gate monitors

Light curtain controllers



Two-hand control modules

Safety mat modules

Relay Modules / Safety technology / Safety switching devices / Emergency stop modules

Emergency stop modules

İnsan ve makinelerin korunması için acil durdurma modülleri

DOLD acil durdurma modülleri, DIN EN ISO 13849'a göre Performans Seviyesi (PL) e / kategori 4'e kadar tüm kriterleri karşılar ve tehlike durumunda, makineler ve sistemler tarafından yapılan tüm tehlikeli hareketlerin durdurulduğundan ve / veya güç devre dışı bırakılır. Bu, insanları ve makineleri güvenilir bir şekilde korur. Kompakt modüller kontrol kabinine yerden tasarruf sağlayan bir şekilde entegre edilebilir ve basit kablolama sayesinde bağlanması ucuzdur. Çıkarılabilir terminaller, cihazların hızlı bir şekilde değiştirilmesini sağlar.



Emergency stop module, extremely small RK 5942

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- 1- or 2-channel operation
- Output: 1 NO contact and 1 semiconductor monitoring output
- LED-indicator for relay 1 / 2 and supply voltage



Emergency stop module UF 6925



- According to
- Performance Level (PL) e and category 4 to EN ISO 13849-1
- SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- According to EN 50156-1 for furnaces
- 2-channel operation
- Forcibly guided output contacts
- With or without cross fault monitoring in...



Emergency stop module BG 5924

- According to
- Performance Level (PL) e and category 4 to EN ISO 13849-1
- SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL) 3 to IEC/EN 61508
- According to EN 50156-1 for furnaces
- Single channel or two-channel operation
- Output: max. 4 NO contacts
- AC 230 V model with galvanic separation
- LED...





Emergency stop module BG 5925

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Output: max. 3 NO contacts, see contacts
- Single and 2-channel operation
- Line fault detection on On-button
- Manual restart or automatic restart, switch S2



Emergency stop module LG 5924



- According to
- Performance Level (PL) e and category 4 to EN ISO 13849-1
- SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL) 3 to IEC/EN 61508
- According to EN 50156-1 for furnaces
- Single channel or two-channel operation
- Output: max. 4 NO contacts
- AC 230 V model with galvanic separation
- LED...



Emergency stop module LG 5925

- According to
- Performance Level (PL) e and category 4 to EN ISO 13849-1
- SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- According to EN 50156-2 for furnaces
- Output: max. 4 NO contacts, see contacts
- LG 5925.54: 1 semiconductor output
- Single and 2-channel...





Safety module for elevator control LG 5925/034

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
 - Directive 2014/33/EU for elevators
- Output: 3 NO contacts, 1 NC contact
- Single or 2-channel operation
- Line fault detection on On-button
- Manual restart or...



Emergency stop module with time delay LG 5928

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- Output: 2 NO instantaneous contacts and 1 release delay contact
- 1- or 2-channel connection
- Line fault detection at the ON pushbuttons at...



Emergency stop module BD 5935

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- 1- or 2-channel connection
- Operating state display
- LED display for channels 1 and 2
- Overvoltage and short circuit protection
- Wire connection: also...





Emergency stop module BD 5987

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Output: 2 NO contacts for AC 250 V
- 1-channel or 2-channel connection
- LED displays for channels 1 and 2
- Overvoltage and short circuit protection



Emergency stop module with voltage failure detection BH 5903



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
 - Category 4 to EN 954-1
- E-stop with latching function
- Automatic start when voltage returns after phase failure when no E-Stop was operated before phase failure.



Emergency stop module with time delay BH 5928

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508 and IEC/EN 61511
- Output: 3 NO or 2 NO, 1 NC instantaneous contacts and 3 NO release delayed contacts
- Single and 2-channel operation
- Line fault detection on...





Emergency stop module with time delay BI 5928

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508 and IEC/EN 61511
- Output: 3 NO or 2 NO, 1 NC instantaneous contacts and 3 NO release delayed contacts
- Single and 2-channel operation
- Line fault detection on...



Emergency stop module IP 5924



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- According to EN 50156-1 for furnaces
- Single channel or two-channel operation
- Output: max. 4 NO contacts
- AC 230 V model with galvanic separation
- LED...



Emergency stop module with voltage failure detection BL 5903

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
 - Category 4 to EN 954-1
- E-stop with latching function
- Automatic start when voltage returns after phase failure when no E-Stop was operated before phase failure.





Emergency stop module BN 5930.48/203

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- BN 5930.48/203 with cross fault detection by connecting 2 different phases, max. 400 V,
BN 5930.48/204 with cross fault detection by connecting phase and neutral, max. 230 V



Emergency stop module BN 5930.48/204



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- BN 5930.48/203 with cross fault detection by connecting 2 different phases, max. 400 V,
- BN 5930.48/204 with cross fault detection by connecting phase and neutral, max. 230 V



Emergency stop module BN 5983

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Output: 3 NO, 1 NC contacts for AC 400 V
- Optionally gold-plated contacts to switch small loads (input for PLC)
- 1-channel or 2-channel connection
- LED...



Relay Modules / Safety technology / Safety switching devices / Safety gate monitors

Emniyet kapısı monitörleri

Hareketli emniyetli kapı sistemlerinin izlenmesi

DOLD size çok çeşitli uygulamalar için geniş bir güvenlik kapısı izleme modülü yelpazesi sunar. DIN raylarına monte edilen bağlanmaya hazır anahtarlama cihazları, hareketli emniyetli kapı cihazlarının konumunu izler. Tehlikeli hareketlere sahip bir odaya giriş ve / veya erişimin korumayı gerekli kıldığı her yerde kullanılabilir, örn. makinenin çalışması, konfigürasyon veya sorun giderme için. Emniyet kapısı izleme modülleri, emniyet cihazının açılması ve / veya kapatılması ile çalıştırılan hareketli emniyet kapısı anahtarlarının konumunu izler.



Safety module for safety switches BG 5925/920

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- to connect:
 - magnetic switch NE 5020
 - magnetic switch NE 5021
- Output: max. 3 NO contacts, see contacts
- 2-channel operation
- Line fault detection on...





Safety module for safety switches LG 5925/920

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- According to EN 50156-2 for furnaces
- To connect:
 - Safety switch NE 5020
 - Safety switch NE 5021
- Output: max. 4 NO contacts, see contacts



Emergency stop module BN 5930.48



- Same as BN 5983, but with other terminal designation
(see circuit diagram)
- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Output: 3 NO, 1 NC contacts for AC 400 V
- 1-channel or 2-channel circuit
- LED...



Emergency stop module BO 5988

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Output: max. 6 NO, 1 NC contacts or 1 NO contact for AC 250 V
- 1-channel or 2-channel connection
- Line fault detection at On pushbutton
- Feedback circuit...





Emergency stop module UF 6925

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- According to EN 50156-1 for furnaces
- 2-channel operation
- Forcibly guided output contacts
- With or without cross fault monitoring in...



Emergency stop module LG 5925



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- According to EN 50156-2 for furnaces
- Output: max. 4 NO contacts, see contacts
- LG 5925.54: 1 semiconductor output
- Single and 2-channel...



Emergency stop module BD 5935

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- 1- or 2-channel connection
- Operating state display
- LED display for channels 1 and 2
- Overvoltage and short circuit protection
- Wire connection: also...





Emergency stop module BD 5987

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Output: 2 NO contacts for AC 250 V
- 1-channel or 2-channel connection
- LED displays for channels 1 and 2
- Overvoltage and short circuit protection



Emergency stop module with time delay BH 5928



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508 and IEC/EN 61511
- Output: 3 NO or 2 NO, 1 NC instantaneous contacts and 3 NO release delayed contacts
- Single and 2-channel operation
- Line fault detection on...



Emergency stop module with time delay BI 5928

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508 and IEC/EN 61511
- Output: 3 NO or 2 NO, 1 NC instantaneous contacts and 3 NO release delayed contacts
- Single and 2-channel operation
- Line fault detection on...





Emergency stop module BN 5930.48/203

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- BN 5930.48/203 with cross fault detection by connecting 2 different phases, max. 400 V,
BN 5930.48/204 with cross fault detection by connecting phase and neutral, max. 230 V



Emergency stop module BN 5930.48/204



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- BN 5930.48/203 with cross fault detection by connecting 2 different phases, max. 400 V,
- BN 5930.48/204 with cross fault detection by connecting phase and neutral, max. 230 V



Emergency stop module BN 5983

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Output: 3 NO, 1 NC contacts for AC 400 V
- Optionally gold-plated contacts to switch small loads (input for PLC)
- 1-channel or 2-channel connection
- LED...



Relay Modules / Safety technology / Safety switching devices / Light curtain controllers

İşık perdesi kontrolörleri

İşık bariyerlerini ve ışık ızgaralarını izleyin

Kişiler veya nesnelere tehlikeli bir alana yaklaşırsa, DOLD ışık bariyeri anahtarlama cihazları temassız güvenlik cihazları (AOPD) yoluyla tehlikeli hareketi devre dışı bırakır ve güvenli bir durum sağlar. Işık bariyeri anahtarlama cihazları, taşıma işlemi sırasında düzenli olarak tehlike kaynağı olan makinelere ve sistemlere ulaşması gereken kişileri korumak için kullanılır. Tipik bir uygulama, iş parçalarının preslere taşınması ve çıkarılmasıdır. Bu çözümün bir yararı, güvenlik seviyesini düşürmek zorunda kalmadan, daha uzun çevrim sürelerinde ve mekanik güvenlik cihazlarından kaçınarak daha yüksek üretkenliktir.



Light curtain controller BG 5925/900

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Output: max. 3 NO contacts, see contacts
- Single and 2-channel operation
- Line fault detection on On-button
- Manual restart or automatic restart, switch S2
- ...





Light curtain controller LG 5925/900

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- According to EN 50156-2 for furnaces
- For light curtains with symmetric or asymmetric outputs adjustment with switch S1
- Output: max. 4 NO...



Light curtain controller BH 5902/01MF2



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
 - Category 4 to EN 954-1
- To connect max.:
 - 3 light curtains 2-channel or
 - 2 light curtains 2-channel and 2 muting sensors 1-channel or
 - 1 light curtain 2-channel and...

Relay Modules / Safety technology / Safety switching devices / Two-hand control modules

Çift el kontrol modülleri

Çift el anahtarları ile güvenli çalışma

Presleme, delme, kesme ve / veya kesme cihazlarının ortak bir yanı vardır: işletme personelinin yaralanmasına neden olabilecek tehlikeli kapanma hareketleri. Makinelerde ve sistemlerde DOLD'un çift el anahtar rölesi bu tür yaralanmalara karşı koruma sağlar. Tehlikeli alanın dışına güvenli bir şekilde konumlandırılan operatör, tehlikeli hareket tamamen durmadan bu alana giremez. DOLD iki eli anahtarlama modülleri sadece güvenlik sağlamakla kalmaz, aynı zamanda geleneksel güvenlik kontrolleri artık gerekli olmadığından size para kazandırır.



Two-hand safety relay BG 5933



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
 - Safety Level Type III-C according to EN 574
 - the safety regulations for two-hand controls on power-operated presses in metalworking ZH 1-456
- Inputs for 2 push buttons with...



Two-hand safety relay LG 5933

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
 - Safety level Type III-C to EN 574
- Inputs for 2 push buttons with 1 NC and 1 NO contact
- Output: 3 NO contacts, 1 NC contact
- Feedback circuit Y1 - Y2 to...





Two-hand safety relay BD 5980N

- According to
 - Performance Level (PL) c and category 1 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 1 to IEC/EN 62061
 - Safety Integrity Level (SIL) 1 to IEC/EN 61508
 - Safety niveau Typ III-A according to EN 574
- Wire connection: also 2 x 1.5 mm² stranded ferruled (isolated),
DIN 46 228/-1/-2/-3/-4 or
2 x 2.5 mm² stranded ferruled DIN 46...



Two-hand safety relay BH 5933



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
 - Safety Level Type III-C according to EN 574
 - the safety regulations for two-hand controls on power-operated presses in metalworking ZH 1-456
- Inputs for 2 push buttons with...

Relay Modules / Safety technology / Safety switching devices / Safety mat modules

Emniyet paspası modülleri

Emniyetli paspaslar ve emniyet kenarları için anahtarlama cihazı

Büyük tehlikeli alanların güvenliğini sağlamak ve makinelere erişim kontrolü olarak hizmet etmek için DOLD'dan emniyet matı modülleri. Bu güvenlik cihazları, bir kişi üzerine bastığında olduğu gibi, bir harekete geçirici kuvvet tarafından tetiklendiğinde, DOLD değerlendirme modülü aracılığıyla yürütülen bir kontrol komutu vererek, tehlikeli hareketleri derhal durdurur. Emniyet şiltesi modülleri DIN EN ISO 13849 uyarınca emniyet kategorisi 4 / PL e'ye uygundur. İşlevleri sürekli olarak izlenir ve korunacak alanlara göre ayrı ayrı ayarlanabilir.



Safety mat switch gear BG 5925/910



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Safety-mat switch gear with manual or automatic restart
- can also be used for safety edges
- Output: max. 3 NO contacts
- Line fault detection on On-button



Safety edge module LG 5944

- According to
 - Performance Level (PL) e and category 3 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- According to IEC/EN 60 204-1
- Output: 2 redundant safety outputs
- Line fault detection on On-button
- Manual restart or automatic restart, switch S2



Relay Modules / Safety technology / Extension / delay time / interface modules

Uzatma / gecikme süresi / arayüz modülleri

Çoklu kontaklar, özel kapatma veya fonksiyonların değiştirilmesi

DOLD'un genişletme, gecikme ve bağlantı modülleri, maliyet etkin temas çoğaltmasının yanı sıra işlevlerin belirli bir şekilde kapatılması veya değiştirilmesine de olanak tanır.



Extension modules

Delay modules

Interface modules



Relay Modules / Safety technology / Extension / delay time / interface modules / Extension modules

Extension modules

Universal contact expansions for basic modules

With the expansion modules from DOLD, you can simply multiply the output contacts of the basic modules in order to be able to deactivate any number of control circuits safely. These are compact switching devices with forcibly guided safety relays that are controlled by the respective function module (basic module) and monitored via a return circuit. A cost-effective contact multiplication is made possible through the division into multiple control circuits.



Extension module BG 5929

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508when connected to a suitable safety module
- Redundant and forcibly guided contacts
- Output: max. 5 NO contacts or 4 NO contacts / 1 NC contact
- 1- or 2-channel...





Extension module LG 5929

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508when connected to a suitable safety module
- According to EN 50156-1 for furnaces
- Control from semiconductor safety outputs (light curtains, e-stop, etc.) is also...



Extension module UG 6929



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511 when connected to a suitable safety module
- According to EN 50156-1 for furnaces
- Control with safety semiconductor outputs (light curtain, e-stop)...



Extension module BN 3081

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- when connected to a suitable safety module
- Redundant and forcibly guided contacts
 - Output: 7 NO contacts, 1 NC contact for feed back circuit
 - 1- or 2-channel...

Relay Modules / Safety technology / Extension / delay time / interface modules / Delay modules

Gecikme modülleri

Sürücülerin özel olarak kapatılması



DOLD gecikme modülleri, sürücülerin özel olarak kapanmasına izin vererek yaralanma riskini azaltır. Tipik bir kullanım alanı, kapatıldıktan sonra hareket etmeye devam eden yüksek hızlı araçlardır. Verimlilik etkilenmez, çünkü makine hemen yeniden başlatılabilir. Tehlikeli hareketin acil durdurması, durdurma gecikmesi sırasında motor frenleme fonksiyonlarının uygulanmasına izin verilmesi ve / veya sürücünün hızı ayarlanabilmesi için durdurma kategorisi 1'e göre belirli bir kapatma ile hızlandırılabilir.



Delay module, release delayed BG 7925

- According to
 - Performance Level (PL) d and category 2 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety Integrity Level (SIL 2) to IEC/EN 61508
 - Category 2 nach EN 954-1
- Variants /__2 to /__3
 - Performance Level (PL) d and category 3 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety...



Delay module, release delayed BG 7926

- According to
 - Performance Level (PL) d and category 2 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety Integrity Level (SIL) 2 to IEC/EN 61508 and IEC/EN 61511 when connected to a suitable safety module
- Redundant and forcibly guided contacts
- 1 timing circuit
- Fixed time delay 1, 2 or 3 sec



Delay module, on delayed LG 7927



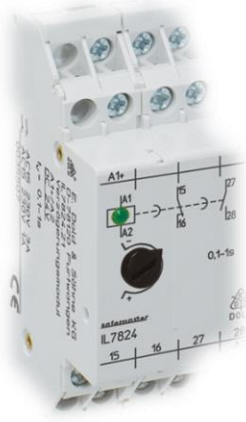
- According to
- Performance Level (PL) d and category 3 to EN ISO 13849-1
- SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
- Safety Integrity Level (SIL) 2 to IEC/EN 61508 and IEC/EN 61511 when connected to a suitable safety module
- Adjustable time delay
- As option fixed time delay
- High long life stability due to digital time base
- ...



Delay module, release delayed LG 7928

- According to
- Performance Level (PL) d and category 3 to EN ISO 13849-1
- SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
- Safety Integrity Level (SIL) 2 to IEC/EN 61508 and IEC/EN 61511 when connected to a suitable safety module
- Adjustable time delay
- As option fixed time delay
- High long life stability due to digital time base
- ...





Delay module, release delayed IL 7824

- According to
 - Performance Level (PL) c and category 2 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety Integrity Level (SIL) 2 to IEC/EN 61508
 - Category 2 to EN 954-1
- BA 7924.21/002 und BA 7924.21/003
 - Performance Level (PL) d and category 3 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 nach IEC/EN 62061



Delay module, release delayed BA 7924



- According to
 - Performance Level (PL) c and category 2 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety Integrity Level (SIL) 2 to IEC/EN 61508
 - Category 2 to EN 954-1
- BA 7924.21/002 und BA 7924.21/003
 - Performance Level (PL) d and category 3 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 nach IEC/EN 62061



Delay module, release delayed BH 7925

- According to
 - Performance Level (PL) d and category 2 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety Integrity Level (SIL 2) to IEC/EN 61508
 - Category 2 nach EN 954-1
- Variants / __ 2 to / __ 3
 - Performance Level (PL) d and category 3 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety...





Delay module, release delayed IN 7824

- According to
 - Performance Level (PL) c and category 2 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety Integrity Level (SIL) 2 to IEC/EN 61508
 - Category 2 to EN 954-1
- BA 7924.21/002 und BA 7924.21/003
 - Performance Level (PL) d and category 3 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 2 nach IEC/EN 62061

Relay Modules / Safety technology / Extension / delay time / interface modules / Interface modules

Arayüz modülleri

Emniyet odaklı anahtarlanmanın gerçekleştirilmesi

DOLD'un kuplaj modülleri, EN 50205'e göre zorla yönlendirilen kontaklarla yapılır. Zorla yönlendirilen açıcı, kapama kontaktlarının izlenmesine izin verir. Mantık ve yük arasında bir dil olarak, güvenlik odaklı fonksiyonların değiştirilmesi için kullanılırlar. Kendi kendini denetleyen emniyet anahtarlarının kurulumunda DOLD kuplaj modülleri de kullanılır. Ayrıca, kontrol ve güç seviyesinin ayarlanması ve güvenlik odaklı fonksiyonların değiştirilmesi için tercih edilen cihazlardır.





Interface module, with plug-type socket HC 3098

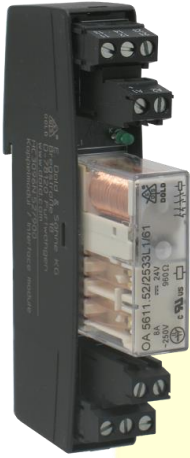
- According to DIN EN 61810
- With forcibly guided contacts according to IEC 61810-3
- Pluggable safety relay
- Low rated power consumption: 0.8 W
- Max. 2 output contacts
- Contact material: AgNi with fine gold
- High thermal current up to $I_{th} = 5$ A
- Large temperature range: - 40 ... + 85 °C
- As option...



Interface module IK 3079



- According to IEC/EN 61 810-1
- With input protection circuit against voltage peaks
- Forcibly guided contacts according to IEC 61810-3
- İth max. 8 A or 2 x 5 A
- Functional display by LED
- Optionally 2 NO or 2 changeover contacts or 1 NO and 1 NC
- IK 3079/103: with forcibly guided contacts according to ZH/457



Interface module, with plug-type socket HC 3096N

- According to DIN EN 61810-1, IEC 60664-1, IEC/EN 60 947-5-1
- With forcibly guided contacts according to IEC 61810-3
- Models with soldered in or plug-in PCB safety relay consisting of:
 - plug in socket HC 3096N and safety relay OA 5611
 - plug in socket HL 3096N and safety relay OA 5612
- With polarity protected diode





Interface module LG 3096

- With forcibly guided contacts according to IEC 61810-3
- Max. 6 contacts
- As option goldplated contacts to switch low loads
- Wire connection: also 2 x 1.5 mm² stranded ferruled, or 2 x 2.5 mm² solid DIN 46 228-1/-2/-3/-4
- As option with pluggable terminal blocks for easy exchange of devices
 - with screw terminals
 - or with...



Interface module MK 3047



- According to IEC/EN 60947-5-1
- As option with 2 NO contacts or 2 NC contacts or 1 NO contact and 1 NC contact or 1 changeover contact
- With LED indication
- With free-wheel diode to protect the contacts
- Width 22.5 mm



Interface module MK 3096N

- With forcibly guided contacts according to IEC 61810-3
- Max. 6 contacts
- As option goldplated contacts to switch low loads
- Wire connection: also 2 x 1.5 mm² stranded ferruled, or 2 x 2.5 mm² solid DIN 46 228-1/-2/-3/-4
- As option with pluggable terminal blocks for easy exchange of devices
 - with screw terminals
 - or with...





Interface module UG 3091

- According to IEC/EN 60 947-5-1
- With partially forcibly guided contacts according to IEC 61810-3
- 10 output contacts
- As option with pluggable terminal block for easy exchange of devices
- with screw terminals
- 22,5 mm Baubreite



Interface module UG 3096

- With forcibly guided contacts according to IEC 61810-3
- UG 3096: 8 output contacts



UH 3096: 16 output contacts

- As option with gold plated contacts to switch low loads
- As option with contacts connected in series to switch high DC-loads
- As option with pluggable terminal blocks for easy exchange of devices
- with screw...



Interface module UG 3088

- With forcibly guided contacts according to IEC 61810-3
- Version with up to 2 x 4 contacts
- Variant to switch high DC-load
- Width: 22,5 mm



Interface module HK 3087N

- According to IEC/EN 61810-1, IEC 60664-1,
- With forcibly guided contacts according to IEC 61810-3
- Models with soldered in PCB safety relay
- With polarity protected diode
- Optionally with free-wheeling diode across relay coil
- With LED indicator
- Optionally AgNi + 0,2 µm Au or AgNi + 5 µm Au
- For DIN...



Interface module, with plug-type socket HL 3094N

- Acc. to DIN EN 61810-1, IEC 60664-1, IEC/EN 60 947-5-1, EN 50 155
- With forcibly guided contacts according to IEC 61810-3
- Models with soldered in or pluggable PCB safety relay, consisting of
 - plug in socket HL 3094N and safety relay OA 5601
- With polarity protected diode
- With free-wheeling diode between A1+ and A2





Interface module, with plug-type socket HL 3096N

- According to DIN EN 61810-1, IEC 60664-1, IEC/EN 60 947-5-1
- With forcibly guided contacts according to IEC 61810-3
- Models with soldered in or plug-in PCB safety relay consisting of:
 - plug in socket HC 3096N and safety relay OA 5611
 - plug in socket HL 3096N and safety relay OA 5612
- With polarity protected diode



Interface module, with plug-type socket HL 3094

- According to DIN EN 61810-1, IEC 60 664-1, IEC/EN 60 947-5-1
- With forcibly guided contacts according to IEC 61810-3



- Low nominal consumption: 0.75 W / 1 W / 1.25 W
- Max. 8 output contacts
- Contact material AgNi + 0.2 µm Au
- High thermal current I_{th} = 8 A
- Large temperature range: - 40 ... + 55°C



Interface module UH 3096

- With forcibly guided contacts according to IEC 61810-3
- UG 3096: 8 output contacts
- UH 3096: 16 output contacts
- As option with gold plated contacts to switch low loads
- As option with contacts connected in series to switch high DC-loads
- As option with pluggable terminal blocks for easy exchange of devices
- with screw...





Interface module IP 3078

- According to IEC/EN 60 947-5-1, IEC/EN 61 810-1
- Forcibly guided contacts according to IEC 61810-3
- Max. 6 output contacts
- High thermal current $I_{th} = 8 \text{ A}$
- LED for operating state
- Devices available in 2 enclosure versions:

IP 3078: depth 61 mm, with terminals at the bottom for installation systems and industrial...



Interface module SP 3078



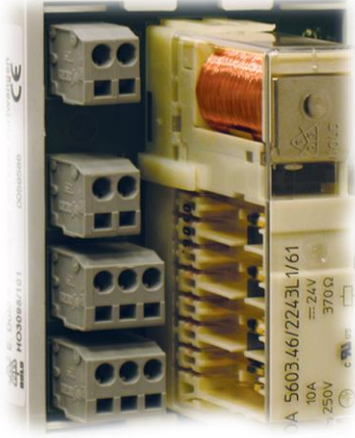
- According to IEC/EN 60 947-5-1, IEC/EN 61 810-1
- Forcibly guided contacts according to IEC 61810-3
- Max. 6 output contacts
- High thermal current $I_{th} = 8 \text{ A}$
- LED for operating state
- Devices available in 2 enclosure versions:
IP 3078: depth 61 mm, with terminals at the bottom for
installation systems and industrial...



Interface module, with plug-type socket HO 3094

- According to DIN EN 61810-1, IEC 60 664-1, IEC/EN 60 947-5-1
- With forcibly guided contacts according to IEC 61810-3
- Low nominal consumption: 0.75 W / 1 W / 1.25 W
- Max. 8 output contacts
- Contact material AgNi + 0.2 μm Au
- High thermal current $I_{th} = 8 \text{ A}$
- Large temperature range: - 40 ... + 55°C





Interface module, with plug-type socket HO 3095

- According to DIN EN 61810-1, IEC 60 664-1, IEC/EN 60 947-5-1
- With forcibly guided contacts according to IEC 61810-3
- Low nominal consumption: 0.75 W / 1 W / 1.25 W
- Max. 8 output contacts
- Contact material AgNi + 0.2 µm Au
- High thermal current I_{th} = 8 A
- Large temperature range: - 40 ... + 55°C

Relay Modules / Safety technology / Standstill / speed monitoring

Durma / hız izleme

SAFEMASTER S - Güvenli ve konforlu duruş ve hız izleme

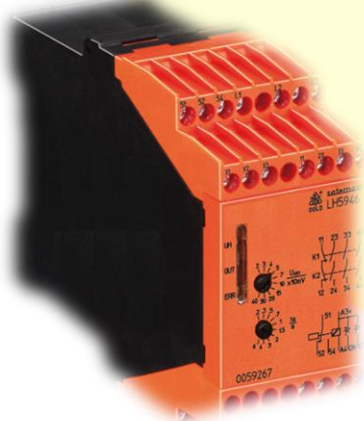
Yeni makine direktifine uygun olarak, bir sürücünün çalışma durumu, kapatılması sırasında güvenli bir şekilde izlenmeli ve sürdürülmelidir. Tipik uygulamalar, tehlikeli hareketlerin durması tespit edildikten sonra kilitleme mekanizmalarının serbest bırakılmasının yanı sıra açık güvenlik cihazlarıyla çalışmak ve makinenin kalibrasyonu sırasında düşük hızdır. SAFEMASTER S serisinin yeni hız monitörleri, otomatik ve kurulum işleminde makine ve sistemlerin durma ve aşırı hızlarını algılar ve bildirir. Güvenli bir şekilde entegre edilmiş güvenlik kapısı izleme sistemi, ek olarak işletim personeli için daha yüksek verimlilik ve daha yüksek güvenlik sağlar.





Speed or standstill monitor BH 5932

- According to
 - Performance Level (PL) e and category 3 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- For stop category 0 according to EN 418
- 2-channel input
- To monitor rotation and linear movement
- PNP proximity sensor inputs



Standstill monitor LH 5946



- According to
- Performance Level (PL) e and category 4 to EN ISO 13849-1
- SIL-Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL) 3 to IEC/EN 61508, IEC/EN 61511 and EN 61800-5-2
- Safe standstill detection on 3- and single-phase motors
- No external sensors necessary
- Independent of direction
- Broken wire...



Speed and standstill monitor UH 5947

- According to
- Performance Level (PL) e und category 4 to EN ISO 13849-1
- SIL-Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL 3) to IEC/EN 61508
- According to EN 60204
- Device setting on menu-driven display or via RJ45
(FCC Western-Modular 8P8C) with connection cable (copy function)
- Change tracking





Speed monitor UH 6932

- According to
 - Performance Level (PL) e und category 4 to EN ISO 13849-1
 - SIL-Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
 - Safety Integrity Level (SIL) 3 to IEC/EN 61511
- Overspeed, undspeed or window monitoring
- Integrated user friendly frontside display
- Comfortable, menu guided...



Speed and frequency monitor UH 6937



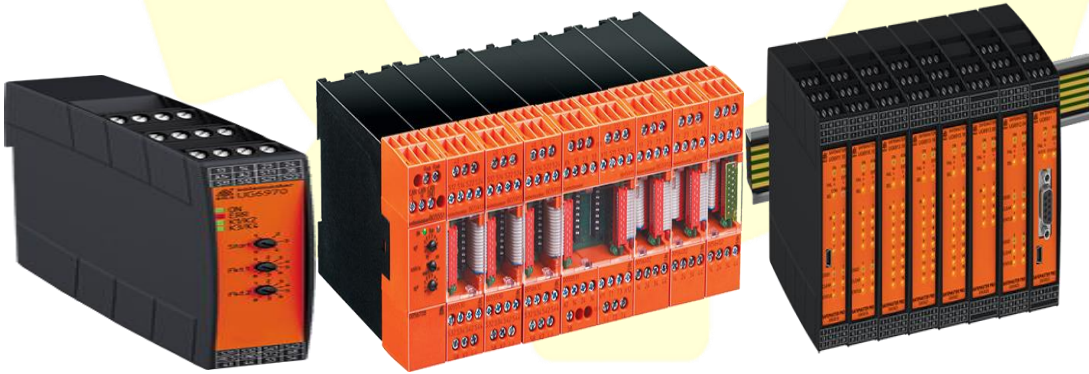
- According to
- Performance Level (PL) e und category 4 to EN ISO 13849-1
- SIL-Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL 3) to IEC/EN 61508
- Safety Integrity Level (SIL) 3 to IEC/EN 61511
- Over-, underfrequency or window monitoring of single or 3-phase in AC systems
- Integrated user friendly frontside...

Relay Modules / Safety technology / Multifunctional safety solutions

Çok fonksiyonlu güvenlik çözümleri

Çok işlevli güvenlik çözümleri yerden ve maliyetten tasarruf sağlar

Çok işlevli çok işlevli emniyet anahtarlama cihazlarının yanı sıra, DOLD yüksek performanslı çok fonksiyonlu emniyet anahtarlama cihazları ve sistemleri de sunmaktadır. Bunu yaparken, DOLD artan işlevselliği sürekli batan alan gereksinimlerine entegre eder. Çok fonksiyonlu güvenlik anahtarlama cihazları, makine ve sistem yapımında birçok kullanım alanı için size en uygun çözümleri sunar. Ek donanım olmadan yapılandırılabilen SAFEMASTER C, tıpkı güvenlik fonksiyonlarının ilgili göreve uygun maliyetli ve yazılımsız ayarlanmasını sağlayan SAFEMASTER M modüler güvenlik sistemi gibi burada bir seçenektir. SAFEMASTER PRO ile, değişken genişletme modülleri kullanarak uygulamaya uyarlayabileceğiniz bir güvenlik sistemi alırsınız.



Multifunctional safety relays

Software free safety system

Configurable safety system



Relay Modules / Safety technology / Multifunctional safety solutions / Multifunctional safety relays

Çok fonksiyonlu emniyet röleleri

SAFEMASTER C - Güvenlik artı çok işlevlilik

İster bağımsız bir cihaz olarak kullanılsın, isterse karmaşık güvenlik sistemlerine entegre olsun - SAFEMASTER C ile, insanları ve makineleri korumak için her zaman doğru çözüme sahipsiniz. DOLD'un kompakt çok işlevli emniyet anahtarlama cihazları ile acil durdurma, emniyet kapısı ve diğer güvenlik odaklı girişler tek bir çıkışa atanır. SAFEMASTER C'nin bir diğer önemli avantajı, çok işlevliliğinin bir sonucu olarak maliyet tasarrufudur: kontrol kabininde tek fonksiyonlu güvenlik cihazlarından daha az yer kaplayarak, azaltılmış depolama ihtiyaçları ve güvenlik fonksiyonlarının basit ve hızlı kalibrasyonu ile modları.



Multifunctional safety timer with instantaneous contacts UG 6960

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- Acc. to EN 50156-1 for furnaces
- Line fault detection on On-button:
- Manual restart or automatic restart
- With or without cross fault...





Multifunctional safety timer UG 6961

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- Acc. to EN 50156-1 for furnaces
- Line fault detection on On-button:
- Manual restart or automatic restart
- With or without cross fault...



Multifunctional safety module UG 6970



- According to
- Performance Level (PL) e and category 4 to EN ISO 13849-1
- SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- Acc. to EN 50156-1 for furnaces
- Line fault detection on On-button:
- Manual restart or automatic restart
- With or without cross fault...



Multifunctional safety module UG 6980

- According to
- Performance Level (PL) e and category 4 to EN ISO 13849-1
- SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
- Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- Acc. to EN 50156-1 for furnaces
- Line fault detection on On-button:
- Manual restart or automatic restart
- With or without cross fault...





Multifunction safety module BH 5910

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
 - Category 4 to EN 954-1
- Functions selectable via rotational switches to connect max.:
 - 8 E-stop circuits, single channel or
 - 4 E-stop circuits, 2-channel or
 - 4 light...

Relay Modules / Safety technology / Multifunctional safety solutions / Software free safety system

Yazılımsız güvenlik sistemi

SAFEMASTER M - Merkezi olmayan, modüler, serbestçe yapılandırılabilir!

Modüler emniyet sistemi SAFEMASTER M, birçok makine ve sistem konstrüksiyonu için en uygun çözümdür. Güvenlik fonksiyonları, yazılım gerektirmeyen cihaz konfigürasyonu ile ilgili gereksinimleri uygun maliyetle ayarlayabilir. SAFEMASTER M temel olarak dört modülden oluşur: kontrol ünitesi ile giriş, çıkış ve tanı modülü. Serbestçe seçilebilen güvenlik işlevlerine sahip giriş modülü, çeşitli çıkış modüllerine atanabilir. İsteğe bağlı fieldbus bağlantısı, sistem durumunun görüntülenmesini sağlar. Sonuç, sistem kullanılabilirliğinin artmasıdır.





Control Unit BH 5911.03

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- For emergency stop function, the following inputs and outputs are available:
Inputs: 4 monitored start inputs, or
3 start inputs and 1 stop input and
2 Emergency stop...



Control Unit BH 5911.22



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- For emergency stop function, the following inputs and outputs are available:
Inputs: 4 monitored start inputs, or
3 start inputs and 1 stop input and
2 Emergency stop...



Input module BG 5913.08/_0

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Input module for realization of
 - 4 similar 2-channel inputs
 - Emergency stop circuits
 - Safety gate monitoring system
 - Two-hand control type IIIA, IIIC acc. to DIN/EN...





Input module with isolated inputs BH 5913.08/_0___

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Input module for realization of
 - 4 similar 2-channel inputs
 - Emergency stop circuits
 - Safety gate monitoring system
 - Two-hand control type IIIA, IIIC acc. to DIN/EN...



Input module BG 5913.08/_1___



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Input module for realization of
 - 4 mixed 2-channel inputs
 - Emergency stop circuits
 - Safety gate monitoring system
 - Two-hand control type IIIA, IIIC acc. to DIN/EN...



Input module BG 5913.08/ 2

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Input module for combination of 4 of the following functions to be set via rotary switch:
 - safety gate monitoring function (2 x 2 changeover contacts)
 - Light...





Input module BG 5913.08/_3___

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Input module mit einer per Stufenschalter einstellbarer Combination of the following 3 functions:
 - Light curtains (LC) type 4 with manual or automatic start
 - E-stop...



Input module BG 5914.08/_0___



- According to
 - Performance Level (PL) d and category 2 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety Integrity Level (SIL 2) to IEC/EN 61508
- Input module for realization of:
 - 8 E-STOP, single-channel, autostart
 - 6 E-STOP, single-channel, + 1 E-STOP, 2-channel, autostart
 - 5 E-STOP, single-channel, + 1...



Input module with isolated inputs BH 5914.08/_0

- According to
 - Performance Level (PL) d and category 2 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 2 to IEC/EN 62061
 - Safety Integrity Level (SIL 2) to IEC/EN 61508
- Input module for realization of:
 - 8 E-STOP, single-channel, autostart
 - 6 E-STOP, single-channel, + 1 E-STOP, 2-channel, autostart
 - 5 E-STOP, single-channel, + 1...





Input module with monitoring function BG 5915.08/ 1

- According to
 - Performance Level (PL) d and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508
- Input module with enabling inputs
- for connection of 2 channel
 - safety gates
 - e-stop buttons
 - light curtain (LC) Type 4
 - change over switch
 - enabling switch





Output module BG 5912.04

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Safety outputs can be assigned to one or several function modules (control unit or input modules).
- Outputs:
 - 4 NO contacts
 - 3 NO contacts, 1 NC contact
 - 3 NO...



Output module BG 5912.48

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Safety outputs can be assigned to one or several function modules (control unit or input modules).
- Outputs:
 - 4 NO contacts
 - 3 NO contacts, 1 NC contact
 - 3 NO...



Output module BG 5912.86

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Safety outputs can be assigned to one or several function modules (control unit or input modules).
- Outputs:
 - 4 NO contacts



- 3 NO contacts, 1 NC contact
- 3 NO...



Output module BG 5912.95

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Safety outputs can be assigned to one or several function modules (control unit or input modules).
- Outputs:
 - 4 NO contacts
 - 3 NO contacts, 1 NC contact
 - 3 NO...





Diagnostic Module for CANopen BG 5551

- For transmitting the status information from the control unit and the input modules, e.g. input and error states, start button and safety output assignments, to a control system or bus-capable display
- Galvanic separation
- Adjustment of transmission via rotary switch
- LED indicators for operating voltage and status
- Width...



Diagnostic Module for Profibus DP BH 5552



- For transmitting the status information from the control unit and the input modules, e.g. input and error states, start button and safety output assignments, to a control system or bus-capable display
- Electrical isolation
- Automatic recognition of transmission speed
- LED indicators for operating voltage and status
- Width...

Relay Modules / Safety technology / Multifunctional safety solutions / Configurable safety system

Ayarlanabilir güvenlik sistemi

SAFEMASTER PRO - Konfigüre edilebilir güvenlik sistemi - evrensel ve genişletilebilir

Modüler ve yapılandırılabilir emniyet sistemi SAFEMASTER PRO, makinelerinizin ve tesisatlarınızın tüm emniyet devrelerini basit, esnek ve güvenli bir şekilde izler. DOLD güvenlik sistemi bir kontrol ünitesi ve 14 adede kadar genişletme modülünden oluşur. Saf giriş, saf çıkış ve kombine giriş / çıkış modülleri, ilgili göreve basit ayarlama için kullanılabilir. SAFEMASTER PRO PL e / cat'a kadar güvenlik uygulamaları için uygundur. 4 ve SIL3; donanımı ve yazılımı TÜV sertifikalıdır. Sistemi SAFEMASTER PRO Designer ile yapılandırabilirsiniz. Projeksiyon, grafik yapılandırma yazılımı ile sürükle ve bırak başına kolayca gerçekleşir.



Control unit UG 6911.10



- Monitoring of opto electronical sensors, light curtains, magnetic actuated sensors, E-stop buttons, safety mats, mechanical switches, two-hand control
- 8 safety, single-channel inputs, dual-channel connection in pairs
- 2 safety, dual-channel outputs (OSSD)
- 4 separate test outputs for sensor monitoring
- 1 Feedback circuit...



Input / Output module UG 6916.10

- 8 safety, single-channel inputs, dual-channel connection in pairs
- 2 separate safety, dual-channel outputs (OSSD)
- 1 Feedback circuit each für every safety output with individual configurable reset
- 4 separate test outputs for sensor monitoring
- To extend Safemaster Pro via DIN rail bus (IN-Rail Bus) in an easy way





Input module UG 6913.08

- 8, 12 or 16 safety, single-channel inputs, single-channel connection in pairs
- 4 (UG 6913.08 and UG 6913.16) e.g. 8 (UG 6913.12) test outputs for sensor monitoring
- To extend Safemaster Pro via DIN rail bus (IN-Rail Bus) in an easy way
- Status LEDs for comprehensive diagnosis
- With pluggable terminal block for easy exchange...



Input module UG 6913.12



- 8, 12 or 16 safety, single-channel inputs, single-channel connection in pairs
- 4 (UG 6913.08 and UG 6913.16) e.g. 8 (UG 6913.12) test outputs for sensor monitoring
- To extend Safemaster Pro via DIN rail bus (IN-Rail Bus) in an easy way
- Status LEDs for comprehensive diagnosis
- With pluggable terminal block for easy exchange...



Input module UG 6913.16

- 8, 12 or 16 safety, single-channel inputs, single-channel connection in pairs
- 4 (UG 6913.08 and UG 6913.16) e.g. 8 (UG 6913.12) test outputs for sensor monitoring
- To extend Safemaster Pro via DIN rail bus (IN-Rail Bus) in an easy way
- Status LEDs for comprehensive diagnosis
- With pluggable terminal block for easy exchange...





Output module OSSD UG 6912.02

- 2 or 4 safety dual channel semiconductor outputs (OSSD), separate control in pairs
- To extend Safemaster Pro via DIN rail bus (IN-Rail Bus) in an easy way
- One feedback circuit for each of the 2 or 4 safety outputs with individual start options
- Status LEDs and 2 programmable status outputs for diagnosis
- With pluggable...



Output module OSSD UG 6912.04



- 2 or 4 safety dual channel semiconductor outputs (OSSD), separate control in pairs
- To extend Safemaster Pro via DIN rail bus (IN-Rail Bus) in an easy way
- One feedback circuit for each of the 2 or 4 safety outputs with individual start options
- Status LEDs and 2 programmable status outputs for diagnosis
- With pluggable...



Output module Relay extension UG 6912.14

- Relay contact extension of the OSSDs of Safemaster Pro
- UG 6912.14: 1 relay output with 2 NO safety contacts and 1 NC monitoring contact
- UG 6912.28: 2 relay output with 2 NO safety contacts each and 1 NC monitoring contact
- Status LEDs for power and output
- With pluggable terminal block for easy exchange of devices





Output module Relay extension UG 6912.28

- Relay contact extension of the OSSDs of Safemaster Pro
- UG 6912.14: 1 relay output with 2 NO safety contacts and 1 NC monitoring contact
- UG 6912.28: 2 relay output with 2 NO safety contacts each and 1 NC monitoring contact
- Status LEDs for power and output
- With pluggable terminal block for easy exchange of devices



Output module Relay UG 6914.04/000



- 4 independent, single-channel safety relay outputs configurable as:
 - 4 single outputs, safety category 1, with 1 NO contact
 - 4 single outputs, safety category 2, with 1 NO contact
 - 2 two-channel outputs, safety category 4, with 2 NO contacts
- Optionally 8 freely usable, non-secure, solid-state...



Output module Relay UG 6914.04/008

- 4 independent, single-channel safety relay outputs configurable as:
 - 4 single outputs, safety category 1, with 1 NO contact
 - 4 single outputs, safety category 2, with 1 NO contact
 - 2 two-channel outputs, safety category 4, with 2 NO contacts
- Optionally 8 freely usable, non-secure, solid-state...



Speed monitoring module UG 6917/002

- Speed monitoring module for 1 to 2 axes
- Terminal blocks for connecting 2 proximity sensors
- Available with 0,1 or 2RJ45 sockets for connecting encoders (TTL, HTL, sin/cos)
- Speed pre-selection, with or without direction monitoring. Up to 4 speed thresholds can be configured.
- Speed window...



Speed monitoring module UG 6917/102

- Speed monitoring module for 1 to 2 axes
- Terminal blocks for connecting 2 proximity sensors
- Available with 0,1 or 2RJ45 sockets for connecting encoders (TTL, HTL, sin/cos)
- Speed pre-selection, with or without direction monitoring. Up to 4 speed thresholds can be configured.
- Speed window...





Speed monitoring module UG 6917/112

- Speed monitoring module for 1 to 2 axes
- Terminal blocks for connecting 2 proximity sensors
- Available with 0,1 or 2RJ45 sockets for connecting encoders (TTL, HTL, sin/cos)
- Speed pre-selection, with or without direction monitoring. Up to 4 speed thresholds can be configured.
- Speed window...



Speed monitoring module UG 6917/202

- Speed monitoring module for 1 to 2 axes
- Terminal blocks for connecting 2 proximity sensors



- Available with 0,1 or 2RJ45 sockets for connecting encoders (TTI, HTL, sin/cos)
- Speed pre-selection, with or without direction monitoring. Up to 4 speed thresholds can be configured.
- Speed window...



Speed monitoring module UG 6917/222

- Speed monitoring module for 1 to 2 axes
- Terminal blocks for connecting 2 proximity sensors
- Available with 0,1 or 2RJ45 sockets for connecting encoders (TTI, HTL, sin/cos)
- Speed pre-selection, with or without direction monitoring. Up to 4 speed thresholds can be configured.
- Speed window...



Speed monitoring module UG 6917/302

- Speed monitoring module for 1 to 2 axes
- Terminal blocks for connecting 2 proximity sensors
- Available with 0,1 or 2RJ45 sockets for connecting encoders (TTI, HTL, sin/cos)
- Speed pre-selection, with or without direction monitoring. Up to 4 speed thresholds can be configured.
- Speed window...



Speed monitoring module UG 6917/332

- Speed monitoring module for 1 to 2 axes
- Terminal blocks for connecting 2 proximity sensors
- Available with 0,1 or 2RJ45 sockets for connecting encoders (TTI, HTL, sin/cos)
- Speed pre-selection, with or without direction monitoring. Up to 4 speed thresholds can be configured.
- Speed window...





Bus Extender UG 6918

- Allows to divide the SAFEMASTER PRO System into several remote groups
- Allows safe, remote I/Os
- Divides the system into 6 I/O groups
- Distance between groups 50 m
- Reduced wiring
- With pluggable terminal blocks for easy exchange of devices



Fieldbus module CANopen UG 6951



- Field bus modules for diagnostic-connection on field bus systems UG 6951 (CANopen), UG 6952 (Profibus DP), UG 6954 (PROFINET), UG 6955 (Ethernet/IP), UG 6956 (EtherCAT), UG 6957 (USB)
- Easy connection on SAFEMASTER PRO system via rail (IN-Rail Bus)
- Status LEDs for comprehensive diagnostic
- No influence of the safety functions...



Fieldbus module PROFIBUS-DP UG 6952

- Field bus modules for diagnostic-connection on field bus systems UG 6951 (CANopen), UG 6952 (Profibus DP), UG 6954 (PROFINET), UG 6955 (Ethernet/IP), UG 6956 (EtherCAT), UG 6957 (USB)
- Easy connection on SAFEMASTER PRO system via rail (IN-Rail Bus)
- Status LEDs for comprehensive diagnostic
- No influence of the safety functions...



Fieldbus module PROFINET UG 6954

- Field bus modules for diagnostic-connection on field bus systems UG 6951 (CANopen), UG 6952 (Profibus DP), UG 6954 (PROFINET), UG 6955 (Ethernet/IP), UG 6956 (EtherCAT), UG 6957 (USB)
- Easy connection on SAFEMASTER PRO system via rail (IN-Rail Bus)
- Status LEDs for comprehensive diagnostic
- No influence of the safety functions...

Fieldbus module Ethernet/IP UG 6955

- Field bus modules for diagnostic-connection on field bus systems UG 6951 (CANopen), UG 6952 (Profibus DP), UG 6954 (PROFINET), UG 6955 (Ethernet/IP), UG 6956 (EtherCAT), UG 6957 (USB)
- Easy connection on SAFEMASTER PRO system via rail (IN-Rail Bus)
- Status LEDs for comprehensive diagnostic
- No influence of the safety functions...

Fieldbus module EtherCAT UG 6956

- Field bus modules for diagnostic-connection on field bus systems UG 6951 (CANopen), UG 6952 (Profibus DP), UG 6954 (PROFINET), UG 6955 (Ethernet/IP), UG 6956 (EtherCAT), UG 6957 (USB)
- Easy connection on SAFEMASTER PRO system via rail (IN-Rail Bus)
- Status LEDs for comprehensive diagnostic
- No influence of the safety functions...

Fieldbus module USB UG 6957

- Field bus modules for diagnostic-connection on field bus systems UG 6951 (CANopen), UG 6952 (Profibus DP), UG 6954 (PROFINET), UG 6955 (Ethernet/IP), UG 6956 (EtherCAT), UG 6957 (USB)
- Easy connection on SAFEMASTER PRO system via rail (IN-Rail Bus)
- Status LEDs for comprehensive diagnostic
- No influence of the safety functions...

Relay Modules / Safety technology / Wireless Safety System

Kablosuz Güvenlik Sistemi



SAFEMASTER W - En yüksek güvenlik derecesi ile maksimum hareketlilik ve esneklik

SAFEMASTER W ailesindeki DOLD'un Kablosuz Güvenlik Sistemi, otomatik çalışma (örn. Sorun giderme, yağlama, kalibrasyon çalışması) veya kurulum işletimi (örn. Hizmete sokma, makine ayarları, bakım). Makinelerinizin ve sistemlerinizin yüksek kullanılabilirliği, bu çözümün birçok avantajından sadece biridir. Kablosuz Güvenlik, aşınma ve bakım gerektirmeyen radyo teknolojisi, esnek ve mobil kullanım ve yüksek derecede kullanıcı dostu olma özelliği ile kazanır.



Radio controlled safety system Pair mode



Radio controlled safety system Group mode



Wireless enabling switch





Wireless emergency stop

Relay Modules / Safety technology / Wireless Safety System / Radio controlled

Radyo kontrollü güvenlik sistemi - Çift mod

SAFEMASTER W - Kablosuz Güvenlik

Çift modunda Kablosuz İşlevsel Güvenlik

SAFEMASTER W serisi güvenlik onaylı, çift yönlü radyo kontrollü güvenlik sistemi UH 6900, E-stop ve geleneksel kontrol fonksiyonları gibi güvenlik girişlerinin iletimi içindir ve tehlikeli alanların korunması için büyük esneklik sunar. En son radyo kontrollü teknolojileri uygulayarak, yüksek düzeyde kullanılabilirlik, geniş bir aralık ve güvenlik elde edilir. İki güvenlik bölgesi, hatırı sayılır bir mesafe boyunca kablosuz olarak kolayca bağlanabilir. Ana uygulama alanları, geniş alanları kapsayan uygulamaları ve tam otomatik konveyör sistemleri ve sürücüsüz taşıma sistemleri gibi mobil uygulamaları içerir. Mevcut güvenlik sistemlerinin basit ve ucuz bir şekilde güçlendirilmesi de bu sistemle kablosuz olarak elde edilebilir.





Radio controlled safety module UH 6900

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- Machine directive 2006/42/EG
- DIN EN 574: Safety of machinery - Two-hand control devices -
- DIN EN 300 220: Electromagnetic compatibility and...

**Relay Modules / Safety technology / Wireless Safety System / Radio controlled safety system
Group mode**

Radyo kontrollü güvenlik sistemi - Grup modu

SAFEMASTER W - Kablosuz Güvenlik

Grup modunda Kablosuz İşlevsel Güvenlik

Acil durdurma ve kontrol fonksiyonlarının güvenlik iletimi için bir grup kontrolörü ve 255 adede kadar alıcı içeren SAFEMASTER W serisinin radyo kontrollü güvenlik sistemi UH 6900, tehlikeli alanların güvenliğini sağlarken daha fazla esneklik sağlar. Grup kontrolörü, birkaç alıcının tek yönlü, emniyetli bir radyo iletimi yoluyla güvenli bir şekilde kapanmasına izin vermek için kullanılabilir. Ayrıca, bir alıcı ile birlikte kontrolör gösterge, kontrol ve durum bilgisini değişik tokuş edebilir. Ana uygulama alanları, tamamen otomatik kat konveyörleri ve otomatik güdümlü araçlar gibi mobil uygulamaları içerir.





Radio controlled safety module (Group controller) UH 6900 GC

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- Machine directive 2006/42/EG
- DIN EN 574: Safety of machinery - Two-hand control devices -
- DIN EN 300 220: Electromagnetic compatibility and...



Radio controlled safety module (Group receiver) UH 6900 GR



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 to IEC/EN 61508 and IEC/EN 61511
- Machine directive 2006/42/EG
- DIN EN 574: Safety of machinery - Two-hand control devices -
- DIN EN 300 220: Electromagnetic compatibility and...

Relay Modules / Safety technology / Wireless Safety System / Wireless enabling switch

Kablosuz etkinleştirme anahtarı

SAFEMASTER W - Her şey emniyetle kontrol altında

Bazen insanlar, makineyi kalibre etmek veya bir sorunu çözmek için çalışan makinelerin veya sistemlerin tehlikeli alanlarına girmelidir. Kablosuz etkinleştirme anahtarı SAFEMASTER W, bu gibi durumlarda güvenliğinizi için ideal bir arkadaştır. Tehlikeli hareketleri saniyeler içinde kapatır. SAFEMASTER W, hafif, ultra kompakt bir el vericisi ve güvenlik odaklı çıkışlara sahip bir radyo güvenlik anahtarından oluşur. Radyo ve / veya kızıl ötesi yoluyla sinyal iletimi, yalnızca elde taşınan vericinin görüş alanındaki sistemlerin etkinleştirilebilmesini sağlar.



Radio controlled safety module BI 6910

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - Safety Integrity Level (SIL 3) to IEC/EN 61508



- Safety radio transmission
- Radio receiver for:
 - Radio controlled enabling switch
 - Control signals for 6 non-safety semiconductor outputs
- Multifunction safety modul with additional control input to...



Radio controlled enabling switch RE 6910

- Radio controlled enabling switch RE 6910 for BI 6910
- with DOLD Wireless Safety System
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
- Safety radio transmission
- User friendly, compact enabling switch for radio controlled safety modul BI 6910
- programmable...

Industrial charger unit (DC 24 V) RE 6910/010

Replacement SIM-Card RE 6910/020

Replacement rechargeable battery RE 6910/051

Remote control holster with metal with clip to fix it on belt, Material: leather RE 6910/070



Relay Modules / Safety technology / Wireless Safety System / Wireless emergency stop

Kablosuz acil durdurma

SAFEMASTER W - güvenliğinizi için kablosuz yardımcı

Kablosuz güvenlik sistemi SAFEMASTER W, acil durdurma ve kontrol fonksiyonları için mobil, esnek ve güvenli bir sistemdir. Kablosuz, DIN EN ISO 13849-1 uyarınca PL e ve DIN EN 954-1 uyarınca güvenlik kategorisi 4 ile uyumludur. SAFEMASTER W, mobil uygulamalarda ve tehlikeli alanlara sahip kapsamlı veya karmaşık sistemlerde özel güçler sergilemektedir. Kullanım örnekleri, makinelerin yapılandırılması veya otomatik işletimdeki makinelerde sorun giderme ve / veya bakım çalışmalarıdır. Cihaz, büyük ölçüde kullanıcı dostu ve iyi ergonomi ile ayırt edilir.



Radio controlled safety module BI 5910

- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
 - Category 4 to EN 954-1
- Safety radio transmission
- Radio receiver for:
 - E-stop
 - Control signals for 6 non-safety semiconductor outputs
- Multifunction safety modul with additional control input to...



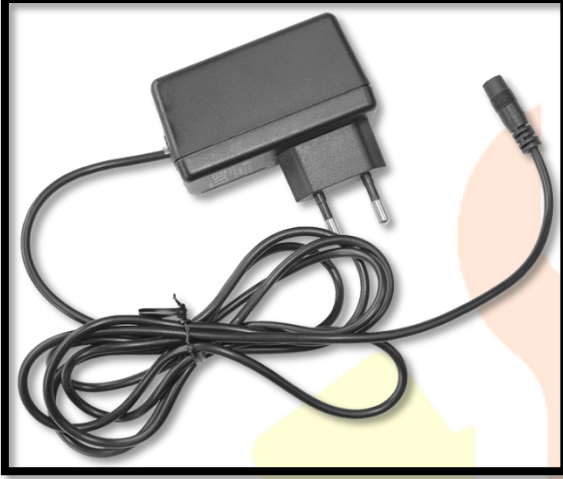


Remote control for E-Stop RE 5910

- Remote control RE 5910 for BI 5910
- with DOLD Wireless Safety System
- Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
- Safety Integrity Level (SIL 3) to IEC/EN 61508
- Category 4 to EN 954-1
- DIN EN ISO 13850
- Safety radio transmission
- User friendly, compact transmitter
- for radio controlled safety modul BI...



Industrial charger unit RE 5910/010

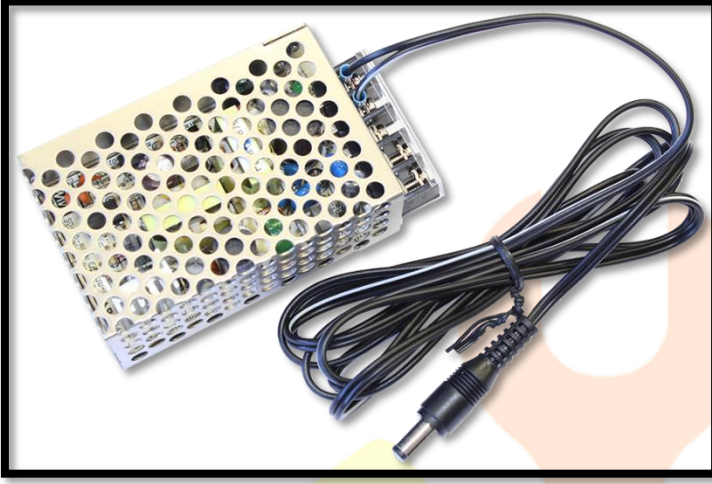


Power supply for industrial charger unit AC 230 V (Euro connector) RE 5910/011

- According to EN 60950
- Input voltage AC 230 V
- Output voltage DC 5 V / 1 A
- Short circuit strength-, overload- and overvoltage protection

Power supply for industrial charger unit AC 230 V (U.K. connector) RE 5910/013

- According to EN 60950
- Input voltage AC 230 V
- Output voltage DC 5 V / 1 A
- Short circuit strength-, overload- and overvoltage protection



Power supply for industrial charger unit DC 24 V RE 5910/012

- According to EN 55022, EN 55024
- Input voltage DC 24 V
- Output voltage DC 5 V / 3 A
- Short circuit strength-, overload- and overvoltage protection

Green electronic key with program RE 5910/020

Orange electronic key with program RE 5910/021

Set with 6 colour stickers "movements" for 2-step push buttons RE 5910/030

Set with 90 black and white stickers RE 5910/031

Set with 48 white stickers and 48 transparent protection stickers for individual marking RE 5910/033

Replacement rechargeable battery RE 5910/051

Laether case for remote control with metal clip to fix it on belt or 3-point shoulder rig RE 5910/070

3-point shoulder rig for fixing the leather case RE 5910/071

Aerial straight 1/4, 433-434 MHZ - BNC RE 5910/040

Aerial straight 1/2, 433-434 MHZ - BNC RE 5910/041

Extension for aerial (2 m) and trough hole connector - BNC and fixing angle RE 5910/042



- According to
 - Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008
 - SIL Claimed Level (SIL CL) 3 to IEC/EN 62061
 - Safety Integrity Level (SIL 3) to IEC/EN 61508
 - Category 4 to EN 954-1
- Way of valve monitoring adjustable (2 NC, 2NO, 1 changeover contact)
- Reset button to acknowledge after fault detection
- Available...



Emergency stop device NI 5061

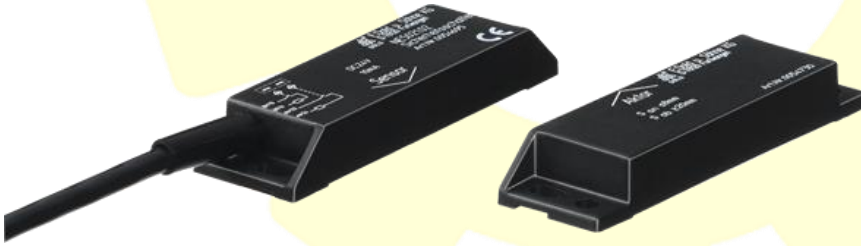
- NI 5061.06: Emergency stop with 2 NC contacts (forced opening)
- NI 5061.43: Emergency stop with 2 NC contacts (forced opening) + 1 NO contact
- M12-connection
- NI 5061.06: 4-poles
- NI 5061.43: 8-poles
- Twist release left or right
- Foolproof acc. to EN ISO 13850
- According to EN 60947-5-1, EN 60947-5-5





Emergency stop monitor BH 5922

- To monitor max. 16 single-channel e-stop buttons or 8 2-channel e-stop buttons
- E-stop button can be connected directly to BH 5922
- Simple wiring of e-stop buttons
- Extendable in steps of 8 e.g. 16 inputs
- No influence on e-stop system
- Adjustable
 - with manual reset (without link X1 / X2)
 - with automatic reset (with...



Magnetic switch coded NE 5021

- Usable for safety application by using a correctly installed and connected, security module (e. g. BG 5925/920 or LG 5925/920)
- According to IEC/EN 60 204-1
- Standard switching distance: $S_{an} \leq 7 \text{ mm}$



Sab \geq 18 mm

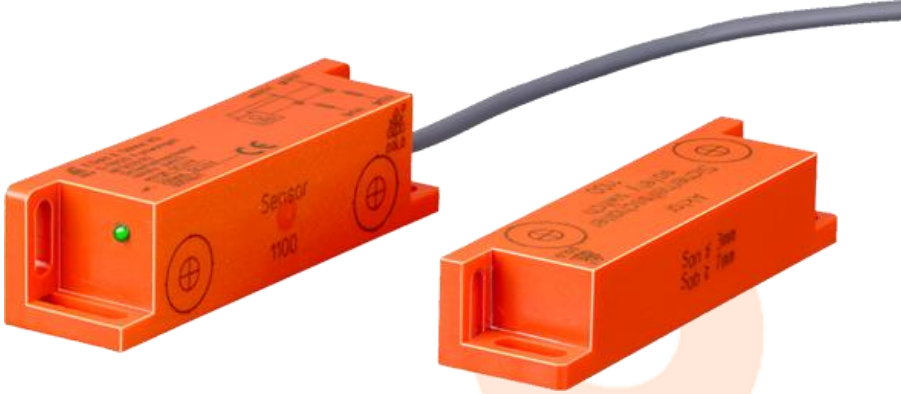
- Max. number of switches in series:
 - 6 NE 5021 on control unit BG 5925/920 or LG 5925/920
 - 10 NE 5021 on...



Emergency stop monitor BL 5922

- To monitor max. 16 single-channel e-stop buttons or 8 2-channel e-stop buttons
- E-stop button can be connected directly to BH 5922
- Simple wiring of e-stop buttons
- Extendable in steps of 8 e.g. 16 inputs
- No influence on e-stop system
- Adjustable
 - with manual reset (without link X1 / X2)
 - with automatic reset (with...





Magnetic switch coded NE 5020

- Usable for safety application by using a correctly installed and connected, security module (e. g. BG 5925/920 or LG 5925/920)
- According to IEC/EN 60 204-1, EN 1088
- 2 channel system
- Standard switching distance: $S_{an} \leq 5.5 \text{ mm}$
 $S_{ab} \geq 13 \text{ mm}$
- 2 NO semiconductor outputs providing diversity and redundancy
- Magnetic...

