

HAZARDOUS AREA EQUIPMENT

NHP

Easy Selection Guide



nhp.com.au
nhp-nz.com

step 1

What is a hazardous area?

A hazardous area is a place where concentrations of flammable gases, vapors or dusts occur.

Electrical equipment installed in these environments is specifically designed and tested to ensure they don't initiate an explosion caused by arcing contacts or high surface temperature of equipment.

STEP 1: What type of environment?

Gas & Vapour



- Oil refineries
- Offshore drilling rigs
- Chemical plants
- Spray booths
- Sewerage treatment plants
- Oxygen and acetylene
- Aircraft hangers (below wing maintenance)
- Confined spaces
- LNG plants
- Wharf's for petroleum and LNG vessels
- Paint manufacturers
- Distilling
- Printing and ink manufacturers
- Laboratory and fume cupboards
- Plant rooms in commercial buildings

Dust



- Food manufacturing
- Grain handling and storage
- Chemicals
- Grain
- Fertiliser
- Plastics
- Wood
- Paper
- Pulp
- Milk powder
- Flour mills
- Pharmaceuticals
- Tyres and rubber
- Metal processing
- Recycling operations
- Fiberglass manufacturing
- Explosive factories

Equipment for hazardous environments is determined by the type of hazard (group) and the auto-ignition temperature (T-rating)

Group II		Group III	
Explosive Gas Atmosphere		Explosive Dust Atmosphere	
Sub-Division	Ignition Energy	Sub division	Explosive atmosphere
IIA (Propane)	260 Micro-joules	IIIA	Combustible flying's
IIB (Ethylene)	95 Micro-joules	IIIB	Non-conductive dust
IIC (Acetylene and Hydrogen)	18 Micro-joules	IIIC	Conductive dust

T Rating	Max.Temp.
T1	450 °C
T2	300 °C
T3	200 °C
T4	130 °C
T5	100 °C
T6	85 °C

The hazard level of the gases and dusts increases from gas groups IIA to IIC and dust groups IIIA to IIIC/ The most severe in both cases being IIC and IIIC

step 2

STEP 2: What type of zone?

Examples of hazardous area zones



GASES AND VAPOURS

Zone 0	Area in which an explosive gas-air mixture is continuously present or present for long periods
Zone 1	Area in which an explosive gas-air mixture is likely to occur for short periods in normal operation
Zone 2	Area in which an explosive gas-air mixture is not likely to occur, and if it occurs it will only exist for a very short time due to an abnormal condition



DUST

Zone 20	Area in which an explosive dust-air mixture is continuously present or present for long periods
Zone 21	Combustible or conductive dusts are present and is likely to occur for short periods in normal operation
Zone 22	Area in which an explosive dust mixture is not likely to occur, and if it occurs it will only exist for a very short time due to an abnormal condition

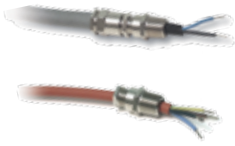
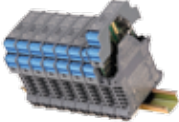
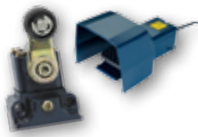
STEP 3: Product selection

Series Selection

step 3

Product	Series	Description	Protection Method	Zone(s)	Page No.
Lighting 	EXEL	Fluorescent	Ex ed	1, 2 and 21, 22	7
	EXEN	Fluorescent	Ex nA	2 and 21, 22	7
	FLFE	Glass tube fluorescent	Ex de	1, 2 and 21, 22	8
	EVE/EWAE	Pendant	Ex de	1, 2 and 21, 22	9
	EWL-80	LED floodlight	Ex de	1, 2 and 21, 22	9
	TIGER	Floodlight	Ex nR	2 and 21, 22	9
	SLEE	Floodlight	Ex de	1, 2 and 21, 22	10
	HEL/HHL	Portable lamps	Ex ia	0, 1, 2	10
Junction boxes, control stations & custom assemblies 	EJB	Terminal boxes	Ex d	1, 2 and 21, 22	12
		Motor starters	Ex d	1, 2 and 21, 22	12
		Custom assemblies	Ex d	1, 2 and 21, 22	12
	GUB	Terminal boxes	Ex d	1, 2 and 21, 22	14
	EFDC	Control stations	Ex d	1, 2 and 21, 22	15
	SA	Aluminium terminal boxes	Ex e	1, 2 and 21, 22	16
	SA...SS	Stainless steel terminal	Ex e	1, 2 and 21, 22	17
	SA...P	GRP Terminal boxes	Ex e	1, 2 and 21, 22	18
	S	Control stations	Ex e	1, 2 and 21, 22	18
Plugs & sockets 	PY	Sockets	Ex d	1, 2 and 21, 22	21
	SPY	Plugs	Ex d	1, 2 and 21, 22	21
Isolators 	CSC	Isolator (16 A)	Ex d	1, 2 and 21, 22	22
	EFSCO	Isolator (25-63 A)	Ex d	1, 2 and 21, 22	22

Series Selection

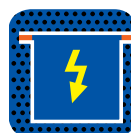
Product	Series	Description	Protection Method	Zone(s)	Page No.
Glands 	FAL	Steel wire armoured	Ex d/ Ex e	1, 2 and 21, 22	23
	FL	non armoured	Ex d/ Ex e	2 and 21, 22	23
Intrinsically safe barriers and distributed I/O 	D1000	Din rail	Ex ia	0, 1, 2 and 20, 21, 22	25
	D5000	Din rail/powerbus	Ex ia	0, 1, 2 and 20, 21, 22	26
	FLEX Ex	Distributed I/O	Ex ia	Refer NHP Pricelist Part R	
Limit / foot switches 	EEx 355	Limit switches	Ex de	1, 2 and 21, 22	27
	EEx GF	Foot switches	Ex d	1, 2 and 21, 22	27

Types of protection

- To protect installations from potential explosion a method of analysing and classifying a potentially hazardous area is required
- This is to ensure correct selection and installation of equipment to prevent explosion and ensure safety of life.



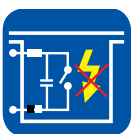
Flame proof enclosure
Ex d
IECEX 60079-1



Protection by enclosure
Ex tb
IECEX 61241-1



Increased safety
Ex e
IECEX 60079-7



Intrinsic safety
Ex i
IECEX 60079-11



Non-sparking
Ex n
IECEX 60079-15

HAE Certified IEC Ex workshop:



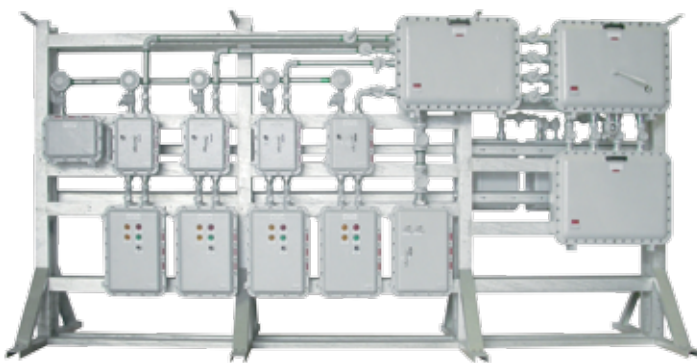
NHP supplies not only the Cortem range of hazardous area equipment, but equally important, customer specific systems via our assembly workshop located at our National Distribution and Manufacturing Centre in Melbourne. In this workshop, accredited staff design, construct and inspect the Cortem range according to the requirements of IECEx certification. It allows for flexibility to produce custom solutions to suit your HAE requirements including:

- Specialist lighting requirements
- Control stations (including custom orders)
- Terminal boxes (including custom orders)
- Full panel design and construction (in both Ex d and Ex de technologies)

The NHPEx workshop enables both expeditious and effective solutions for customers and operates under stringent quality assurance guidelines.

NHPEx can assemble the following to customer specifications:

- Distribution panels
- Motor control
- Control stations
- Automation solutions.



Customised distribution panel

Fluorescent Lighting:

EXEL Series



Zones 1, 2 and 21, 22

- IECEx CES 07.0001
- Ex ed IIC T5
- Ex tb T95°C
- IP 66

Ambient Temp. / Temp. Class / Max Surface Temp.

- -40°C +55°C / T5 / 95°C

- Great mechanical strength
- High protection against corrosion, dust, water and humidity
- Single and dual-channel electronic ballast
- Opening and closing slide system controlled by an hexagonal wrench
- Shock and UV resistant (body and diffuser)
- Loop-in/ loop-out connection on both sides
- Suitable for fluorescent tubes up to 2 x 36 W
- Through wiring
- EOL ballast (end of life)
- Brass earthing plates

Wattage ¹⁾	Voltage	Operation	Mounting ²⁾	T rating	Cat. No.
2 x 18 W	230 V	Normal	2 x M8 moulded thread	T5	EXEL218MAU
2 x 36 W	230 V	Normal	2 x M8 moulded thread	T5	EXEL236MAU
2 x 18 W	110/230 V	Normal + Emergency ³⁾	2 x M8 moulded thread	T5	EXEL218EF4AU*
2 x 36 W	110/230 V	Normal + Emergency ³⁾	2 x M8 moulded thread	T5	EXEL236EF4AU

¹⁾ 1 x 18 W and 1 x 36 W options also available

²⁾ Brackets not included – see page 9

³⁾ Exit lighting available on request

Note: Datasheet available on NHP Corporate Website. Lamps not included.

*Through wiring not available

EXEN Series



Zones 2 and 21, 22

- IECEx CES 12.0010
- Ex nA IIC T5/T4 Gc
- Ex tb IIIC T65°C to T85°C Db
- IP 66

Ambient Temp. / Temp. Class / Max Surface Temp.

- -40°C +40°C / T5 / 65°C
- -40°C +50°C / T5 / 80°C
- -40°C +55°C / T4 / 85°C

- Great mechanical strength
- High protection against corrosion, dust, water and humidity
- Single-channel 230 V electronic ballast
- Opening and closing slide system controlled by an hexagonal wrench
- Shock and UV resistant (body and diffuser)
- Loop-in/ loop-out connection on both sides
- Suitable for fluorescent tubes up to 2 x 36 W
- Through wiring
- EOL ballast (end of life)
- Brass earthing plates

Wattage ¹⁾	Voltage	Operation	Mounting ²⁾	T rating	Cat. No.
2 x 18 W	230 V	Normal	2 x M8 moulded thread	T5	EXEN218AU
2 x 36 W	230 V	Normal	2 x M8 moulded thread	T5	EXEN236AU
2 x 18 W	230 V	Normal + Emergency ³⁾	2 x M8 moulded thread	T5	EXEN218EF4AU*
2 x 36 W	230 V	Normal + Emergency ³⁾	2 x M8 moulded thread	T5	EXEN236EF4AU

¹⁾ 1 x 18 W and 1 x 36 W options also available

²⁾ Brackets not included – see page 9

³⁾ Exit lighting available on request

Note: Datasheet available on NHP Corporate Website. Lamps not included.

*Through wiring not available



Fluorescent Lighting:

FLFE Series

- Aluminium alloy with low copper content
- Borosilicate glass tube heat resistant
- Internal white painted aluminium reflector
- Excellent "CX" coefficient, less wind resistance and less accumulation of dust
- FLFE fixtures have an Ex e internal terminal junction box which allows the connection with an Ex e cable gland (not barrier)
- EOL ballast (end of life)

Zones 1, 2 and 21, 22

- IECEx CES 11.0021 issue 0
- Ex de IIC T6
- Ex tb T70°C to T80°C
- IP 66

Ambient Temp. / Temp. Class / Max Surface Temp.

- -20°C +40°C / T6 / 70°C
- -20°C +50°C / T6 / 75°C
- -20°C +55°C / T6 / 80°C

Wattage	Voltage	Operation	Mounting ²⁾	T rating	Cat. No.
2 x 18 W	230 V	Normal	Surface	T6	FLFE218
2 x 36 W	230 V	Normal	Surface	T6	FLFE236
2 x 58 W	230 V	Normal	Surface	T6	FLFE258
2 x 18 W	230 V	Normal + Emergency ³⁾	Surface	T6	FLFE218EF4
2 x 36 W	230 V	Normal + Emergency ³⁾	Surface	T6	FLFE236EF4
2 x 58 W	230 V	Normal	Surface	T6	FLFE258EF4

²⁾ Brackets not included – see page 9

³⁾ Exit lighting available on request

Note: Datasheet available on NHP Corporate Website. Lamps not included



Pendant Lighting:

EVE / EWAE Series

- Complete with internal Ex e terminal box allowing for connection of Non-barrier Ex e cable glands.
- LED versions available
- Globe in borosilicate glass with high thermal and mechanical stability
- Suitable for discharge lamps up to 400 W

Wattage ¹⁾	Voltage	Operation ²⁾	Mounting ³⁾	T rating	Cat. No.
400 W	230 V	Normal - Metal Halide*	Pendant	T3	EWAE50100IM6
250 W	230 V	Normal - Metal Halide*	Pendant	T4	EWAE5080IM5
400 W	230 V	Sodium Vapor	Pendant	T4	EWAE50100N6
250 W	230 V	Sodium Vapor	Pendant	T4	EWAE5080N5
8 W	230 V	LED	Ceiling	T6	EVEX-5050L
13 W	230 V	LED	Ceiling	T6	EVEX-5060L
19 W	230 V	LED	Ceiling	T0	EVEX-5060L1

¹⁾ Other wattages also available

²⁾ High pressure sodium and mercury vapour lamps also available

³⁾ Other mounting options also available - page 9

Note: Datasheet available on NHP Corporate Website. Lamps not included

Zones 1, 2 and 21, 22

- IECEx CES 07.0004
- Ex de IIC T3
- Ex tb T170°C to T190 °C
- IP 66

Ambient Temp. / Temp. Class / Max Surface Temp

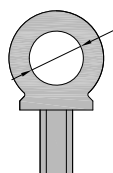
- -20°C +40°C / T3 / 170°C
- -20°C +55°C / T3 / 185°C
- -20°C +60°C / T3 / 190°C

Mounting Accessories:

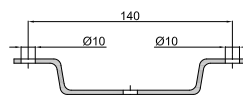
Description	Cat. No.	EXEL	EXEN	FLEF	EVE	EWAE
M8 Threaded bar	STEI8X60IN	x	x	x		
Eyebolt (type-O)	GOF8K	x	x	x		
Bracket (type-U)	G244K	x	x	x		
Bracket (type-V)	G263K	x	x	x		
Bracket (type-D)	G258K	x	x	x		
Pole bracket (type-P)	G0480K	x	x	x		
Pendant fixture	EVEA				x	
Pendant fixture with eyebolt	EVEGC				x	
Ceiling fixture	EVEX				x	
Wall fixture with 30° bracket	EVEIK				x	
Pendant mounting	EWAE					x



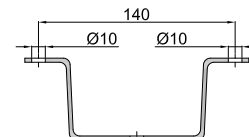
STEI8X60IN



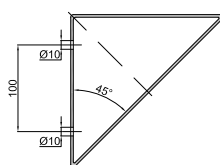
GOF-8



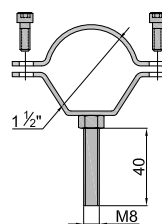
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G-263



G-258



G-0480



EVEA



EVEGC



EVEX



EVEIX

Flood Lighting:

EWL-80 Series



- Equipped with cooling fins for better heat dissipation
- High performance in terms of reliability, safety, efficiency and energy savings
- Life-cycle of 100,000 hours, unalterable brightness and light quality
- As lighting fixture, the LED plate can be accompanied by an optics that vary the focus
- Simple installation and continuous illumination even in the event of failure of some LEDs
- EWL-80 fixtures have an Ex e internal terminal junction box which allows the connection with an Ex e cable gland (not barrier)
- 65 W LED plate designed to replace traditional 150 W metal halide lamps, 250 W mercury lamps and 500 W incandescent lamps

Zones 1, 2 and 21, 22

- IECEx ITS 11.0018
- Ex d e IIC T5 Gb
- Ex tb IIIC T100°C Db
- IP 66

Ambient temperature

- -20°C to +60°C

Wattage	Voltage	Operation	Mounting	T rating	Optics	Cat. No.
60 W	230 V	Normal	Surface	T5	120°	EWL-80
60 W	230 V	Normal	Surface	T5	10° (narrow)	EWL-80/10
60 W	230 V	Normal	Surface	T5	20° (medium)	EWL-80/20
60 W	230 V	Normal	Surface	T5	40° (wide)	EWL-80/40

Note: Datasheet available on NHP Corporate Website.



Tiger Series

- Ideal for lighting large areas
- High degree of protection IP 66
- Suitable for the use in all environments where climatic conditions are extreme
- Fast maintenance
- Anti-corrosion aluminium clips
- Flat glass anti-light pollution
- Suitable for lamps up to 400 W

Zones 2 and 21, 22

- IECEx ITS 12.0004X

Vertical Mount

- Ex nR IIC T3 Gc
- Ex tc IIIC T174°C to T194°C Dc
- IP 66

Ambient Temp. / Temp. Class / Max Surface Temp.

- -50°C +45°C / T3 / 174°C
- -50°C +60°C / T3 / 194°C

Horizontal Mount

- Ex nR IIC T3/T2 Gc
- Ex tc IIC T195/210°C Dc
- IP 66

Ambient Temp. / Temp. Class / Max Surface Temp.

- -20°C +45°C / T3 / 195°C
- -20°C +60°C / T2 / 210°C

Wattage	Voltage	Operation	Mounting	T rating	Cat. No.
250 W	230 V	Normal - sodium vapour	Surface	T3	TIGER250NA
400 W	230 V	Normal - sodium vapour	Surface	T2*	TIGER400NA
250 W	230 V	Normal - metal halide	Surface	T3	TIGER250HA
400 W	230 V	Normal - metal halide	Surface	T2*	TIGER400HA

*T3 rating if mounted at an angle < 90°

Note: Datasheet available on NHP Corporate Website. Lamps not included



Flood Lighting:

SLEE Series

- Designed for lighting large indoor and outdoor areas
- High degree of mechanical protection IP 67
- Shock proof & temperature resistant tempered front glass
- Electrical connections made via an "Ex e" enclosure
- Low copper content Aluminium alloy body
- Accessories available for pole mounting and angled bracket mounting
- Reinforced supporting bracket for mounting on mobile structures available

Zone 1, 2 and 21, 22

- IECEx TSA 08.0011
- Ex de IIB + H2 T2/T3
- Ex tb T188°C/198°C Db
- IP 65/66

Ambient Temp. / Temp. Class / Max Surface Temp

- -20°C to +40°C / T3 / 188°C
- -20°C to +50°C / T2 / 198°C

Wattage	Voltage	Operation	Mounting	T rating	Cat. No.
250 W	230 V	Metal halide	Bracket	T3/T2	SLEE-40IM5
400 W	230 V	Metal halide	Bracket	T3/T2	SLEE-40IM6
250 W	230 V	High pressure sodium	Bracket	T3/T2	SLEE-40IN5
400 W	230 V	High pressure sodium	Bracket	T3/T2	SLEE-40IN6
250 W	230 V	Mercury vapor	Bracket	T3/T2	SLEE-40IF5
400 W	230 V	Mercury vapor	Bracket	T3/T2	SLEE-40IF6

Torches & Head Lamps:

H Series

- Intrinsically Safe LED hand & head lamps, ideal for work in harsh conditions
- Shock resistant body made from Polypropylene
- Transparent unbreakable polycarbonate lens
- Neoprene gasket resistant to acids and hydrocarbons

HHL Hand Held Lamp

- Survives a 2 meter drop test
- Lasts 1 meter underwater
- Built in carabineer clip

HEL Head Lamp

- Survives a 4 meter drop test
- Water resistant
- Adjustable head band



Zone 0, 1, 2

- IECEx UL 07.0008
- Ex ia I/IIC T4
- IP 67

Ambient Temp. / Temp. Class

- -20°C to +50°C / T4 /

Luminous Flux	Discharge Time	Batteries	Weight (kg)	T Rating	Cat. No.
30	20 hours	2x "AA"	0.116	T4	HHL20
45	70 hours	2x "D"	0.448	T4	HHL70
75	15 hours	3x "AA"	0.234	T4	HEL15

Terminal Boxes & Custom Assemblies:

EJB Series – Terminal Boxes



Zones 1, 2 and 21, 22

- IECEx TSA 06.0011 issue No.1
- Ex d IIB + H2 T5/T6
- Ex tD A21 IP 66/67

Ambient temperature

- -20°C to +55°C

- Can be used either as junction boxes with/without terminals or for installation of electrical equipment such as circuit breakers, signals, remote control switches, transformers
- Available with window on cover
- Body and cover can be drilled and threaded by the NHPEx workshop according to customers' specification

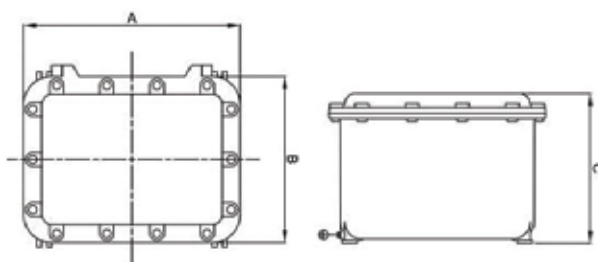
External Dimensions (mm)			Weight (Kg)	Cat. No.
A	B	C		
304	204	218	8.5	EJB-1A
424	224	218	14.2	EJB-2A
364	284	218	16.4	EJB-3BA
364	284	278	17.8	EJB-3A
432	332	299	23.2	EJB-4A
432	332	229	24.1	EJB-4BA
560	380	298	35	EJB-45
632	432	271	49.9	EJB-5A
870	650	480	153	EJB-6

Maximum No. of Entries (Bottom)			Maximum No. of Terminals			Cat. No.
Area (mm)	M20	M25	2.5 mm	4 mm	6 mm	
100 x 120	6	4	2 x 28	2 x 26	2 x 21	EJB-1A
120 x 120	6	4	2 x 38	2 x 28	2 x 22	EJB-2A
180 x 120	11	6	3 x 38	3 x 35	3 x 28	EJB-3BA
180 x 180	16	12	3 x 38	3 x 35	3 x 28	EJB-3A
220 x 195	20	16	3 x 48	3 x 38	3 x 30	EJB-4A
220 x 130	16	8	3 x 48	3 x 38	3 x 30	EJB-4BA
277 x 190	24	18	3 x 70	3 x 65	3 x 50	EJB-45
320 x 230	30	28	3 x 80	3 x 70	3 x 60	EJB-5A
480 x 260	50	45	4 x 120	4 x 100	4 x 80	EJB-6

Note: More sizes available. Contact NHP for quote and for further information



EJB with window





Zone 1, 2 and 21, 22

- IECEx TSA 06.0011
- Ex d IIB + H2 T5/T6
- Ex tD A21 IP 66/67

Ambient temperature

- -20°C +55°C

EJB Series – Motor Starters

- Fully customisable options
- Drawings can be sent directly to our estimating team for immediate quote

Power (kW)	Max Voltage	Max Current	Max Dissipated Power	Enclosure Type	Starting Method
2.2 kW	400 V	5 A	140 W	EJB-1A	DOL
4 kW	400 V	9 A	140 W	EJB-1A	DOL
5.5 kW	400 V	11 A	180 W	EJB-3BA	Reverse
5.5 kW	400 V	11 A	140 W	EJB-1A	DOL
7.5 kW	400 V	14 A	180 W	EJB-3BA	Reverse
7.5 kW	400 V	14 A	140 W	EJB-1A	DOL
11 kW	400 V	21 A	140 W	EJB-1A	DOL
15 kW	400 V	21 A	140 W	EJB-1A	DOL
22 kW	400 V	40 A	350 W	EJB-4A	Star-Delta

Contact NHP for quote and for further information

Standard Motor Starters

Description	Enclosure Type	Cat. No.
Ex d 415 V DOL starter ≤ 7.5 kW	EJB-1A	EJB1A4DOL7
Ex d 415 V DOL starter ≤ 15 kW	EJB-1A	EJB1A4DOL15

EJB Series – Custom Assemblies



Zone 1, 2 and 21, 22

- IECEx TSA 06.0011
- Ex d IIB + H2 T5/T6
- Ex tD A21 IP 66/67

Ambient temperature

- -20°C +55°C

Operators and equipment that can be used and implemented include:

- Emergency stop (twist, key, guard, padlock)
- Pushbutton (illuminated, non-illuminated)
- Indicators
- Circuit breaker control
- Selector switch
- Automatic transfer switches
- Transformers

Terminal Boxes & Control Stations:

GUB Series – Terminal Boxes



Zone 1, 2 and 21, 22

- IECEx TSA 06.0012
- Ex d IIC T6-T5
- Ex tb T85°C -T100°C
- IP 66

Ambient Temp. / Temp. Class / Max Surface Temp

- -20°C to 40°C / T6-T5 / T85°C -T100°C
- -20°C to 55°C / T6-T5 / T85°C -T100°C

- Can be used either as junction boxes with/ without terminals or for the installation of electrical equipment
- Body and cover in copper free aluminium alloy
- Available with window on cover
- Can be supplied with multipolar terminal blocks or with modular terminal blocks
- Can be drilled in the NHPEx workshop according to customer's specification

External Dimensions (mm)				
A	B	C	Weight (Kg)	Cat. No.
174	174	140	3.9	GUB-01
230	230	165	6.8	GUB-02

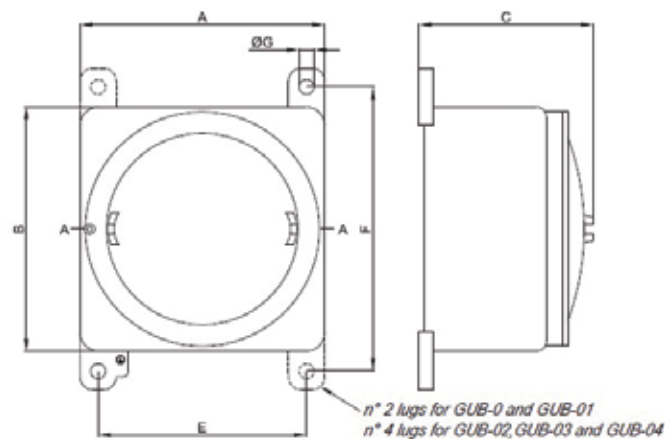
* More sizes available

Maximum No. of Entries			Maximum No. of Terminals			
Area (mm)	M20	M25	2.5 mm	4 mm	6 mm	Cat. No.
135 x 70	5	3	21	15	11	GUB-01
180 x 85	8	6	2x 22	2x 19	2x 15	GUB-02

Note: More sizes available. Contact NHP for quote and for further information



GUB with window





Zone 1, 2 and 21, 22

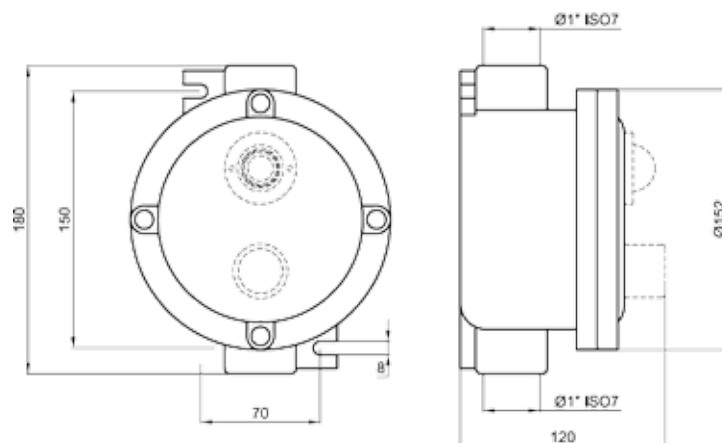
- IECEx TSA 6.0009
- Ex d IIC T5/T6 Ex tD A21
- IP 66

EFDC Series – Control Stations

- Suitable for control and signalling equipment
- Aluminium RAL 7035 epoxy paint
- 1 to 4 operators on a single enclosure
- Cylindrical housing in copper-free aluminium alloy
- Stainless steel bushing and push button shaft
- Also available in a double unit allowing for up to 8 operators, contact NHP for further information

Description	Cat. No.
1 x Red pushbutton, 1 x black pushbutton	EFDC22
1 x Black pushbutton, 1 x red indicator lamp	EFDC23
1 x E-stop twist to release	EFDC21EMR
1 x Red pushbutton, 2 x black pushbutton	EFDC27
1 x Red pushbutton, 1 x black pushbutton, 1 x red indicator lamp	EFDC28
1 x E-stop twist to release, 1 x black pushbutton	EFDC21EMRV1
2 x Red pushbutton, 2 x black pushbutton	EFDC30
1 x Black & 1 x red pushbutton, 1x red & 1 x green indicator lamp	EFDC33
1 x E-stop twist to release, 1 x black pushbutton, 1 x red lamp	EFDC21EMRV2

Contact NHP for full range of options



Entries are 1" ISO 7/1 (conical), for M20 entry use reducer (REGM3IF20B), for M25 use (REGM3IF25B)



Zones 1, 2 & 21, 22

IECEX CES 13.0001

Ex e IIC T6 or T5 Gb

Ex tb IIC T85° or T100° Db

Ex e ia IIC T6 or T5 Gb

Ex tb ia IIC T85°C or T100°C Db

IP 66

Ambient Temp./Temp. Class/ Max Surface Temp.

- 50°C + 40°C / T6 / T85°C

- 50°C + 55°C / T5 / T100°C

Terminal Boxes:

SA Series – Terminal Boxes

- Constructed of Aluminium alloy
- Suitable for electrical installations as increased safety boxes
- Can be supplied with multipolar or modular terminal blocks
- Can be equipped with pilot lights, push buttons and measuring instruments
- Can be drilled by the NHPEX workshop according to customers' specification

External Dimensions (mm)			Maximum No. of Entries (Bottom)			Maximum No. of Terminals			Cat. No.
A	B	C	Area (mm)	M20	M25	2.5 mm	4 mm	6 mm	
110	110	85	58 x 45	2	2	1 x 6	1 x 4	-	SA111108
170	110	85	118 x 45	5	3	1 x 18	1 x 14	1 x 11	SA171108
200	200	120	144 x 74	8	6	2 x 22	2 x 28	2 x 15	SA202012
305	147	110	245 x 55	12	11	1 x 38	1 x 32	1 x 25	SA301410
470	305	195	360 x 130	36	44	2 x 70	2 x 57	2 x 46	SA473018

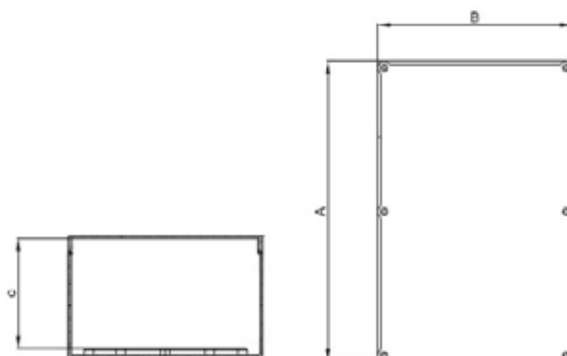
* More sizes available

Terminal	No. of Terminals	Entries	Enclosure	Cat. No.
Screw	6 x 4 mm ² + 2 x earth	4 x M20 - 2 plugged	SA111108	AJB164420

Note: Alternative terminal arrangements, sizes and numbers are available upon request.



AJB164420





Zones 1, 2 & 21, 22

IECEX CES 13.0001

Ex e IIC T6 or T5 Gb

Ex tb IIIC T85° or T100° Db

Ex e ia IIC T6 or T5 Gb

Ex tb ia IIIC T85°C or T100°C Db

IP 66

Ambient Temp./Temp. Class/

Max Surface Temp.

- 40°C + 40°C /T6 /T85°C

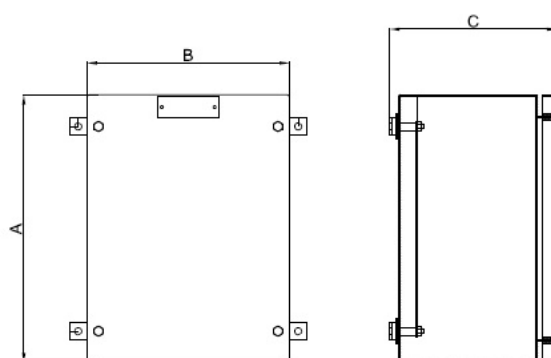
- 40°C + 55°C /T5 /T100°C

SA...SS Series – Terminal Boxes

- Constructed from AISI 316L stainless steel
- Suitable for electrical installations placed in aggressive environments as increased safety boxes
- Can be supplied with multipolar or modular terminal blocks
- Can be equipped with pilot lights, push buttons and measuring instruments
- Can be drilled by the NHPEx workshop according to customers' specification

External Dimensions (mm)			Maximum No. of Entries (Bottom)			Maximum No. of Terminals			Cat. No.
A	B	C	Area (mm)	M20	M25	2.5 mm	4 mm	6 mm	
110	110	90	60 x 30	1	1	1 x 4	-	-	SA111108SS
170	110	90	60 x 30	2	2	1 x 15	1 x 13	1 x 8	SA171108SS
147	147	110	125 x 45	3	3	1 x 11	1 x 9	1 x 6	SA141410SS
305	147	110	120 x 45	7	6	1 x 39	1 x 31	1 x 25	SA301410SS
400	400	210	376 x 135	36	24	2 x 55	2 x 46	2 x 37	SA404020SS
600	600	210	576 x 135	56	36	5 x 90	5 x 75	5 x 60	SA606020SS

* More sizes available



Terminal Boxes & Control Stations:

SA...P Series – Terminal Boxes



Zones 1, 2 & 21, 22

IECEx CES 13.0001

Ex e IIC T6 or T5 Gb

Ex tb IIIC T85° or T100° Db

Ex e ia IIC T6 or T5 Gb

Ex tb ia IIIC T85°C or T100°C Db

IP 66

Ambient Temp./Temp. Class/ Max Surface Temp.

- 40°C + 40°C / T6 / T85°C

- 40°C + 55°C / T5 / T100°C

- Built in GRP resin and they are suitable for electrical installations as increased safety boxes
- Can be supplied with multipolar or with modular terminal blocks
- Can be equipped with pilot lights, push buttons and measuring instruments
- Can be drilled by the NHPEX workshop according to customers' specification and in accordance with certification

External Dimensions (mm)			Maximum No. of Entries (Bottom)			Maximum No. of Terminals			Cat. No.
A	B	C	Area (mm)	M20	M25	2.5 mm	4 mm	6 mm	
110	110	85	58 x 45	2	1	1 x 6	1 x 4	-	SA111108/P
170	110	85	118 x 45	3	3	1 x 18	1 x 17	1 x 11	SA171108/P
305	147	110	245 x 55	10	5	1 x 38	1 x 32	1 x 25	SA301410/P
620	305	185	434 x 120	33	30	2 x 97	2 x 82	2 x 66	SA623018/P

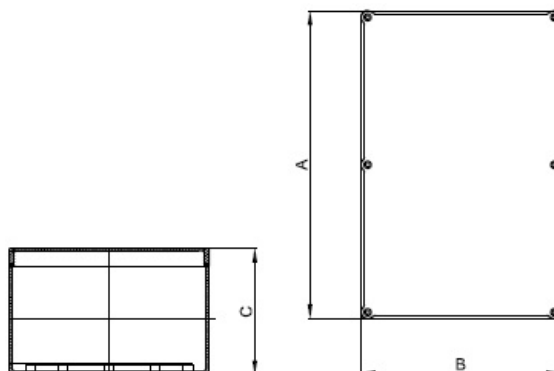
* More sizes available

Terminal	No. of Terminals	Entries	Enclosure	Cat. No.
Screw	6 x 4 mm ² + 2 x earth	4 x M20 - 2 plugged	SA111108/P	PJB164420

Note: Alternative terminal arrangements, sizes and numbers are available upon request.



PJB164420



SA Series – Control Stations



Single gang – description	Contacts	Entries (bottom)	Cat. No. ¹⁾
1 x pushbutton, green	1N/O + 1N/C	1 x M20	A1-1GZ/01
1 x mushroom head 38 mm (twist release)	1N/O + 1N/C	1 x M20	A1-2RZ/01
1 x mushroom head 38 mm (key release) + guard	1N/O + 1N/C	1 x M20	A1-3RZ/01-G
1 x mushroom head 38 mm (key release)	2N/C	2 x M20	A1-3RY/09



Double gang – description	Contacts	Entries (bottom)	Cat. No. ¹⁾
1 x pushbutton, green	1N/O + 1N/C	1 x M20	A2-1GZ-2RZ/01-P
1 x mushroom head 38 mm (twist release) + guard and padlock	1N/O + 1N/C		
1 x pushbutton, green	1N/O + 1N/C	1 x M20	A2-1GZ-3RW/01
1 x mushroom head 38 mm (key release)	1N/C		
1 x pushbutton, green	1N/O	1 x M20	A2-1GV-1RW/01
1 x pushbutton, red	1N/C		



Three gang – description	Contacts	Entries (bottom)	Cat. No. ¹⁾
1 x pushbutton, green	1N/O + 1N/C	1 x M25	A3-1GZ-2RZ-51C/02
1 x mushroom head 38 mm (twist release)	1N/O + 1N/C		
1 x 3 position selector switch - latching	–		
1 x pushbutton, green	1N/O + 1N/C	1 x M25	A3-1GZ-1RZ-51C/02
1 x pushbutton, red	1N/O + 1N/C		
1 x 3 position selector switch - latching	–		
1 x pushbutton, green	1N/O + 1N/C	1 x M25	A3-1GZ-1RZ-2RZ/02
1 x pushbutton, red	1N/O + 1N/C		
1 x mushroom head 38 mm (key release)	1N/O + 1N/C		

Zones 1, 2 and 21, 22

- IECEx CES 11.0032 issue 0
- Ex de IIC T5 Gb
- Ex tb IIIC T85°C Db
- IP 66

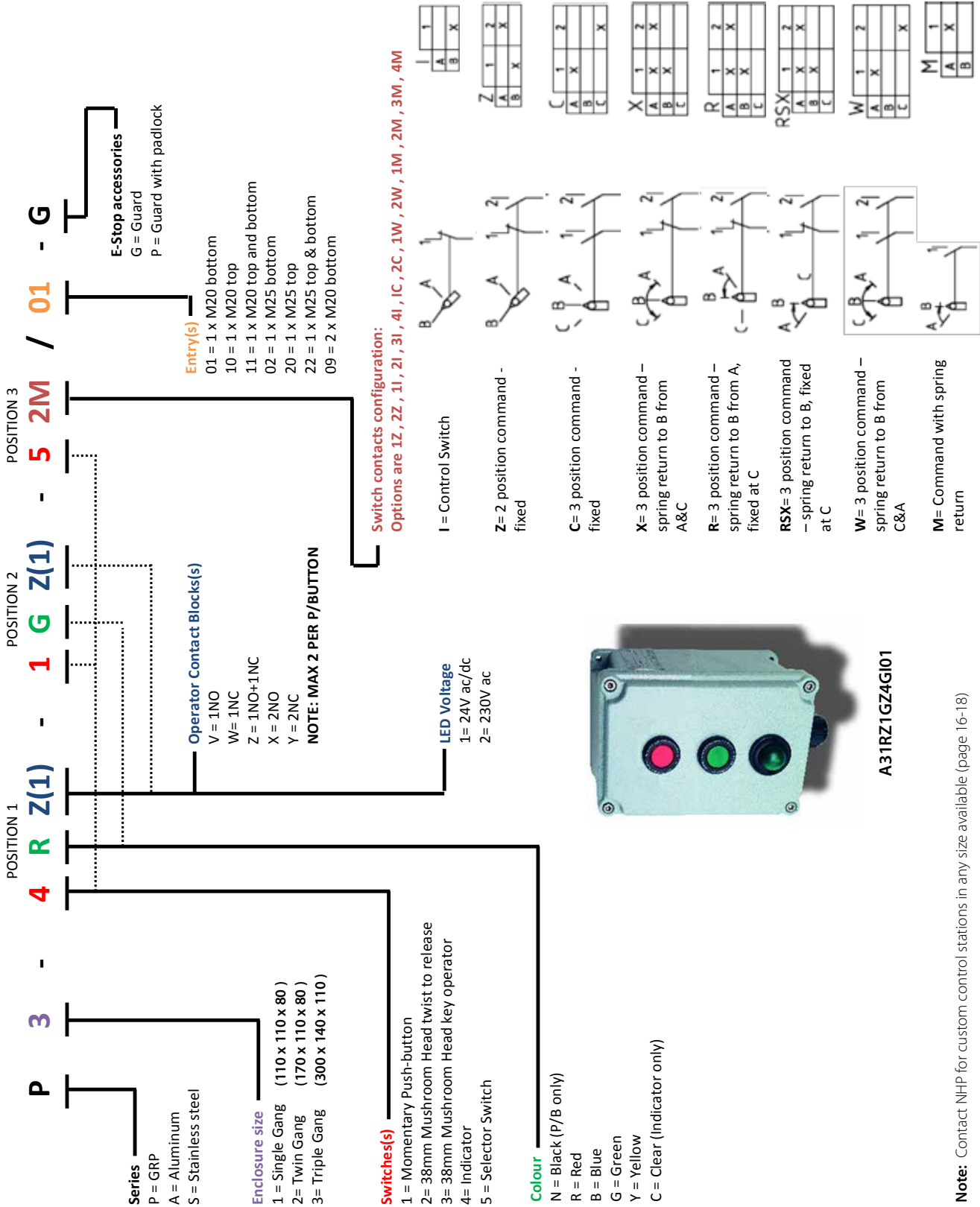
¹⁾ Substitute first letter of Cat. No. denotes material

P = GRP

A = Aluminium

S = Stainless steel

Ex e Standard Control Stations



Note: Contact NHP for custom control stations in any size available (page 16-18)

Plugs and Sockets:

PY / SPY Series



Zones 1, 2 and 21, 22

- IECEx CES 11.0011X
- Ex d IIC T5
- Ex tD A21 IP 66

- PY series sockets complete with interlocked disconnection switch, can be used in all environments with potential explosive atmosphere
- If supplied with the plugs SPY are conceived so as not to allow the coupling with standard industrial type plugs
- Ring colour indicates the suitable power voltage

Rated Current (A)	Entries	No. of Poles	Frequency (Hz)	Rated Voltage (V)	Arrangement	Socket Cat. No.	Plug Cat. No.
16 ¹⁾	Socket (2 x 3/4" ISO 7/1)	2P + E	50/60	200/250	 6h	PY216B	SPY216B
		3P + E	50/60	200/250	 9h	PY316B	SPY316B
	Plug (1 x 3/4" ISO 7/1)	3P + E	50/60	380/415	 6h	PY316R	SPY316R
32 ²⁾	Socket (2 x 1" ISO 7/1)	3P + E	50/60	200/250	 9h	PY332B	SPY332B
		3P + E	50/60	380/415	 6h	PY332R	SPY332R
	Plug (1 x 1" ISO 7/1)	3P + N + E	50/60	200/250	 9h	PY432B	SPY432B
		3P + N + E	50/60	380/415	 6h	PY432R	SPY432R

* Other voltage available

¹⁾ 16 A - Entries are 3/4" ISO 7/1 (conical), for M20 entry use adapter (REGM2IF20B), for M25 use (REBIF25GM2B)

²⁾ 32 A - Entries are 1" ISO 7/1 (conical), for M20 entry use adapter (REGM3IF20B), for M25 use (REGM3IF25B)

Note: For plugs, use PLG2B for 16 A & PLG3B for 32 A

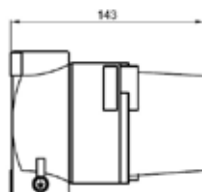
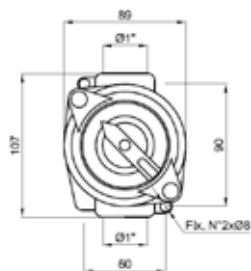
Isolators:

CSC Series



- CSC series isolators, switches and changeover switches are rotary
- Aluminium handle
- Rated up to 16 Amps
- Body and cover in copper-free aluminium alloy
- 2 x 1" ISO 7/1 entries

Amp Rating	Poles	Weight (kg)	Cat. No.
16	2	0.84	CSC-216
16	3	0.86	CSC-316
16	4	0.88	CSC-416



Note: Entries are 1" ISO 7/1 (conical), for M20 entry use adapter (REGM3IF20B), for M25 use (REGM3IF25B)

Zone 1, 2 and 21, 22

- IECEx TSA 06.0009
- Ex d IIC T6 Gb
- Ex tb IIIC T85°C Db
- IP 65

**Ambient Temp. / Temp. Class /
Max Surface Temp**

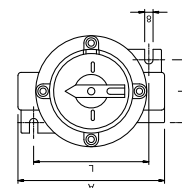
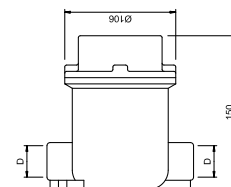
- 20°C to +60 °C / T6 / T85°C



EFSCO Series

- EFSCO series features switches, changeover switches and isolators
- Switches and changeover switches are rotary type
- 25, 50 and 63 A models
- Aluminium handle
- Body and cover in copper-free aluminium alloy

Range (Amps)	Poles	Weight (kg)	Dimensions				Cat. No.
			D	A	L	I	
Isolators							
25	2	1.14	1"	140	110	60	EFSCO 22
25	3	1.14	1"	140	110	60	EFSCO 23
25	4	1.18	1"	140	110	60	EFSCO 24
63	2	1.40	1.5"	160	120	80	EFSCO 62
63	3	1.40	1.5"	160	120	80	EFSCO 63
Switches							
25	1	1.14	1"	140	110	60	EFSCO 242
25	2	1.18	1"	140	110	60	EFSCO 244
63	1	1.40	1.5"	160	120	80	EFSCO 642
Changeover Switches							
25	1	1.20	1"	140	110	60	EFSCO 26
25	2	1.18	1"	140	110	60	EFSCO 266
63	1	1.40	1.5"	160	120	80	EFSCO 66



Notes: 25 A – 2 x 1" ISO 7/1 (conical) entries, use REGM3IF20B for M20 or REGM3IF25B for M25. Use Plug PLG3B
63 A – 2 x 1.5" ISO 7/1 (conical) entries, use REGM5IF25B for M25 or REGM5IF32B for M32. Use Plug PLG5

Cable glands:

FAL Series - Armoured Cables

FAL series cable glands (double seal) are used for the direct insertion of armored cables into Ex d equipment or enclosures placed in areas at risk of explosion. The cable glands can be installed easily and the taper fit guarantees optimum earthing continuity.



Zones 1, 2 and 21, 22

- IECEx TSA 10.0002 issue 0
- Ex d IIC,
- Ex e II
- Ex tb IP 66/67

Entry thread	Cable diameter (mm)			Material	Cat. No.
	Min	-	Max		
M16	4	-	6	Stainless steel	FAL01ISK
M16	4	-	6	Brass	FAL01IBK
M20	6	-	12	Stainless steel	FAL1ISK
M20	6	-	12	Brass	FAL1IBK
M25	12	-	17	Stainless steel	FALISK
M25	12	-	17	Brass	FAL2IBK
M32	14	-	23	Stainless steel	FAL3ISK
M32	14	-	23	Brass	FAL3IBK
M40	21	-	29	Stainless steel	FAL4ISK
M40	21	-	29	Brass	FAL 4IBK

FL Series – Unarmoured Cables

FL series cable glands (double seal) are used for the direct insertion of non-armored cables into Ex d equipment or enclosures placed in areas at risk of explosion. The cable glands can be installed easily and the taper fit guarantees optimum earthing continuity.



Zones 1, 2 and 21, 22

- IECEx TSA 10.0002 issue 0
- Ex d IIC,
- Ex e II
- Ex tb IP 66/67

Entry thread	Cable diameter (mm)			Material	Cat. No.
	Min	-	Max		
M16	4	-	6	Stainless steel	FL01IK
M16	4	-	6	Brass	FL01IBK
M20	6	-	12	Stainless steel	FL1ISK
M20	6	-	12	Brass	FL1IBK
M25	12	-	17	Stainless steel	FL2ISK
M25	12	-	17	Brass	FL2IBK
M32	14	-	23	Stainless steel	FL3ISK
M32	14	-	23	Brass	FL3ISBK
M40	21	-	29	Stainless steel	FL4ISK
M40	21	-	29	Brass	FL4ISBK

Note: Banner glands also available. Contact NHP for quote and for further information

Adapters and Stopping Plugs:

RE Series

Adaptors and Reducers

Zones 1, 2 and 21, 22

- IECEx CES 10.0001X issue 0
- Ex d IIC
- Ex e II
- Ex tb IP 66/67



* Adaptor



* Reducer

Thread size			Cat. No.
Conical (ISO 7/1)	-	Metric (ISO)	
3/4"	-	M20	REGM2IF20B
3/4"	-	M25	REBIF25GM2B
1"	-	M20	REGM3IF20B
1"	-	M25	REGM3IF25B
1"	-	M32	REBIF32GM3B

* REB = Adaptor

* REG = Reducer



PLG Series - Ex d / Ex e / Ex tD

Stopping plugs

Zones 1, 2 and 21, 22

- IECEx CES 10.0001X issue 0
- Ex d IIC
- Ex e II
- Ex tb IP 66/67

Metric	
Thread size	Cat. No.
M16	PLG01IB
M20	PLG1IB
M25	PLG2IB
M32	PLG3IB
M40	PLG4IB
M50	PLG5IB



Note: Supplied for conical threads

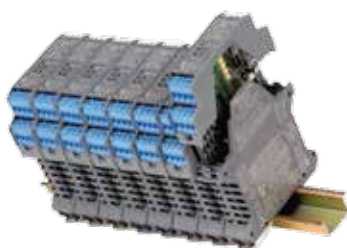
Conical	
Thread size	Cat. No.
3/8"	PLG01B
1/2"	PLG1B
3/4"	PLG2B
1"	PLG3B
1 1/4"	PLG4B
1 1/2"	PLG5B

Note: Adaptors and plugs available in all thread types and sizes. Contact NHP for quote and for further information

Intrinsically Safe Barriers:

D1000 Series – Din Rail

Analogue Barriers



Zones 0, 1, 2 and 20, 21, 22

- Ex nA [Ex ia Ga] IIC T4
- [Ex ia Da] IIIC
- [Ex ia Ma] I
- IECEx BVS 07.0027X

	SIL	Hazardous Area	Safe Area	Supply	Channel Per unit	Cat. No.
AI	-	4-20 mA / 0-20 mA, 2/3- wires TX + lower safety parameters	4-20 mA, 0-20 mA (source/sink) or 1-5 V	20-30 V DC	1	TCD1010S-046
					2	TCD1010D-046
		4-20 mA, 2 wire TX	4-20 mA (source)		4	TCD1012Q
	3	4-20 mA, 2 wire TX, hart compatible	4-20 mA, 0-20 mA (source/sink) or 1-5 V	10-30 V DC	1	TCD1014S
					2	TCD1014D
AO	2	4-20 mA / 0-20 mA	4-20 mA / 0-20 mA bus powered	20-30 V DC	1	TCD1020S
					2	TCD1020D
			+ line & load fault detection		1	TCD1021S
	-	1-40 mA - fire/ smoke detector or loop powered AI/AO isolator	1-40 mA	loop powered	1	TCD1022S
					2	TCD1022D

Digital Barriers

	SIL	Hazardous Area	Safe Area	Supply	Channel Per unit	Cat. No.
DI		Voltage free contact, proximity switch, line fault detection	1 SPDT (relay) + 1 SPDT (alarm or duplicator)	85-264 V AC or 100 -350 V DC	1	TCD1130S
					2	TCD1130D
	2	Voltage free contact, proximity switch, line fault detection	2 SPST (relay) + 2 SPST (alarm or duplicator)	20-30 V DC	2	TCD1032D
			4 SPST (relay)		4	TCD1032Q
			2 open collector + 2 open collector (alarm or duplicator)		2	TCD1033D
			4 open collector		4	TCD1033Q
DO	3	NE solenoid	Loop powered control signal	Loop + 20-30 V DC	1	TCD5048S
			Bus powered control signal			20-30 V DC
		F&G solenoid	Loop powered control signal	Loop + 20-30 V DC		TCD5247S
		NE 12W'Ex d' solenoid				TCD5280S

Intrinsically Safe Barriers:

D5000 Series – Din rail / Powerbus

Analogue Barriers



	SIL	Hazardous Area	Safe Area		Supply	Channel Per unit	Cat. No.
AI	2	4-20 mA, 2 wire TX active or passive	4-20mA, 2 trip Amp with 1 SPST (contact)		20-30 V DC	1	TCD5254S
	3	4-20 mA, 2-wire TX	4-20 mA	Source only		1	TCD5011S
		4-20 mA, 2 wire TX active or passive		Source or sink		2	TCD5011D
						1	TCD5014S
						2	TCD5014D
AO	3	4-20 mA	4-20 mA		20-30 V DC	1	TCD5020S
						2	TCD5020D

Digital Barriers

Zones 0, 1, 2 and 20, 21, 22

- Ex nA [ia Ga] IIC T4 Gc
- [Ex ia Da] IIIC
- [Ex ia Ma] I
- IECEx BVS 10.0072 X

	SIL	Hazardous Area	Safe Area	Supply	Channel Per unit	Cat. No.
DI	3	Voltage free contact, proximity switch, line fault detection, isolated inputs	SPDT (relay)	20-30 V DC	1	TCD5030S
			2 SPST (relay)		1	TCD5030D
					1 open collector	
			2 open collectors		1	TCD5031S
			1 open collector or 1 open collector + 1 open collector (alarm duplicator)		2	TCD5031D
					1	
	2	Voltage free contact, proximity switch	4 open collectors		4	TCD5231Q
			8 open collectors		8	TCD5231E
DO	3	NE solenoid	Loop powered control signal	Loop + 20-30 V DC	1	TCD5048S
			Bus powered control signal	20-30 V DC		TCD5049S
		F&G solenoid	Loop powered control signal1	Loop + 20-30 V DC		TCD5247S
		NE 12W 'Ex d' solenoid				TCD5280S



Limit Switches:

Ex position switches are used where moving parts of machines and industrial plants have to be positioned, controlled and monitored. The various application fields, ranging from fine mechanics to heavy-duty machinery, require different materials, electrical capacity and quality criteria regarding construction and design.

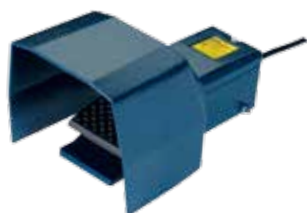
Zones 1, 2 and 21, 22

- Increased safety
- Ex de IIC T6
- Combustible dust (DIP)
- Ex tb IP 65
- IECEx BVS 07.0014

Safety versions available - up to SILK

Device	Contacts	Entry bottom	Cat. No.
Extended plunger	1N/O + 1N/C	1 x M20	EEx 335 S 10/1S
	2N/C	1 x M20	EEx 335 S 20
Roller plunger	1N/O + 1N/C	1 x M20	EEx 335 R 10/1S
	2N/C	1 x M20	EEx 335 R 20
Roller lever	1N/O + 1N/C	1 x M20	EEx 335 1K 10/1S
	2N/C	1 x M20	EEx 335 1K 20
Rocking roller lever	1N/O + 1N/C	1 x M20	EEx 335 4VH 10/1S
	2N/C	1 x M20	EEx 335 4VH 20
Adjustable rocking roller	1N/O + 1N/C	1 x M20	EEx 335 4V7H 10/1S
	2N/C	1 x M20	EEx 335 4V7H 20
Rod lever	1N/O + 1N/C	1 x M20	EEx 335 4V10H 10/1S
	2N/C	1 x M20	EEx 335 4V10H 20
Spring-rod	1N/O + 1N/C	1 x M20	EEx 335 TK 10/1S
	2N/C	1 x M20	EEx 335 TK 20

Foot Switches:



Ex foot switches are used, amongst other things, in good lifts and service elevators to open the cabin doors. Using these switches, operators do not have to lay down carried goods or materials to open the lift cabin door and load the lift cabin.

Zones 1, 2 and 21, 22

- Flameproof
- Ex d IIC T5/T6
- Combustible dust (DIP)
- Ex tb IP 65
- IECEx PTB 06.0098X (EEx 14 contact)

Device	Contacts	Entry bottom	Cat. No.
Foot switch	1N/O + 1N/C	1 x M20	EEx GF 10/1S
	2N/C	1 x M20	EEx GF 20
Foot switch with guard	1N/O + 1N/C	1 x M20	EEx GFS 10/1S
	2N/C	1 x M20	EEx GFS 20



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