

# ELECTRICAL EQUIPMENT FOR EXPLOSIVE ATMOSPHERES





# **INDUSTRIES AFFECTED**

#### **TYPES OF DUST**

# **APPLICATIONS**

Silos, flour milling, baking, agri-foods, etc.



#### Wood, manufactures of furniture and corks. Wood silos, waste sorting, textiles, etc.



 FOOD DUST
Cereals, starch, sugar, flour, milk, chocolate, colorings, etc.



#### 2 – PLANT DUST

Wood, bark, cork, cotton, paper, etc.



3 – METAL DUST

Aluminum, magnesium, ferro alloys, etc.



#### **4 – DUST FROM INDUSTRIAL PROCESSING**

Plastics, powder coatings, fertilizers, rubber, elastomers, resins and synthetic adhesives, etc.



Storage, transportation (mechanical, on road vehicles), milling, crushing, filling, etc.



Storage, transportation, processing



Processing



Storage, transportation, processing



Surface treatment, shot blasting, sandblasting, etc.



Processing of plastics, tires, paints, etc.





# 2/ GAS HAZARDS (G): ZONES 0, 1 and 2 INDUSTRIES AFFECTED:

#### **INDUSTRIES AFFECTED**

Automotive, mechanical, boiler construction, plastic parts or parts with a plastic appearance



Processing of aerosol dispensers



Automotive outsourcing, earthenware, glass, high-power heating (ovens), etc.



All-industry handling with forklift (warehouse storage)



Petrochemicals, oil exploration, production, refining and storage



TYPE OF HAZARD / PRESENCE OF GAS

# SOLVENT VAPORS (TYPE IIB)

Liquid paint, varnish, bonding, stripping, etc.



**PROPELLANT GAS** Lubricants, perfumes, paint, surface treatment, etc.



### GAS EMISSIONS AND LEAKS

Heating processes, hydrogen furnaces



# HANDLING AND STORAGE OF DANGEROUS PRODUCTS

Butane, propane, etc.



# **FOSSIL FUELS**

Oil, petrol, methane, etc.



APPLICATIONS

Paint booths, processing.



Filling processes



Oven proximity, control unit, processing, etc.



Battery charging area for trucks, storage areas, etc.



Processing, storage, transportation, etc.





Ges area - G: zone 1 → G ⊕ II 2 G zone 2 → G ⊕ II 3 G TE SERIES (ZONES 1 & 2 - 21 & 22)			,		
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FLUGRESCENT LIGHTS EXPLOSIONPROOF CLASS Ex.del     CATALOG NUMBERS (NON-ARMONED CARE) MES CARLE CLAND SUPPLID)     CATALOG NUMBERS (ARMORED CARE) MES CARLE CLAND SUPPLID)       2 x 18W - 110/254 - 50/60 Hz     FEB218BUSN     FEB213BUSN     FEB213BUSN       7 N SERIES (ZONES 2 - 21 & 22)     0     CATALOG NUMBERS (NON-ARMORED CARE) 2 x 18W - 220/240 - 50/60 Hz     FEB213BUSN     FEB213BUSN       7 N SERIES (ZONES 2 - 21 & 22)     0     CATALOG NUMBERS (NON-ARMORED CARE) 1 M25 CARLE GLAND SUPPLID)     CATALOG NUMBERS (ARMORED CARE) 2 x 18W - 220/240 - 50/60 Hz     FNB218BKSNN     FNB236BKSNN       7 D SERIES (ZONES 1 & 2 - 21 & 22)     0     FLUGRESCENT LIGHTING EXPLOSIONPROF CLASS Ex d     CATALOG NUMBERS (ARMORED CARE) 1 M25 CARE GLAND SUPPLID)     CATALOG NUMBERS (ARMORED CARE) 2 x 18W - 230V - 50 Hz - 2 x M20     FDB236KCXN       7 D SERIES (ZONES 1 & 2 - 21 & 22)     0     FLUGOESCENT LIGHTING EXPLOSIONPROF CLASS Ex do IIB High PRESSURE SOUMA 2 x 36W - 230V - 50 Hz - 2 x M20     FDB238CCXM       7 D SERIES (ZONES 1 & 2 - 21 & 22)     0     FLUGOESCENT LIGHTING EXPLOSIONPROF CLASS Ex do IIB High PRESSURE SOUMA     CATALOG NUMBERS PLB238LESXCM        0     FLUGOESCENT LIGHTING EX			zone 22 $\rightarrow$ (	E EX II 3 D	
Index Section     Index Section     Index Section     Index Section     Index Section       2 x 18W - 110/254 - 50/60 Hz     FEB218BUSN     FEB218BUSN     FEB236BUSN     FEB236BUSN       2 x 18W - 110/254 - 50/60 Hz     FEB236BUSN     FEB236BUSN     FEB236BUSN     FEB236BUSN       2 x 58W - 110/254 - 50/60 Hz     FEB236BUSN     FEB236BUSN     FEB236BUSN     FEB236BUSN       FN SERIES (ZONES 2 - 21 & 22) 0     FLUORESCENT LIGHTING     CATALOG NUMBERS (NON -ARMORED GARE)       2 x 18W - 220/240 - 50/60 Hz     FNB218BKSNN     FNB218BKSNN     FNB236BKSNN     FNB236BKSNN       2 x 18W - 220/240 - 50/60 Hz     FNB236BKSNN     FNB236BKSNN     FNB236BKSNN     FNB236BKSNN       FD SERIES (ZONES 1 & 2 - 21 & 22) 0     FLUORESCENT LIGHTING EXPLOSION/PROOF CLASS Ex do     CATALOG NUMBERS (ATALOG NUMBERS)     CATALOG NUMBERS       2 x 18W - 230V - 50 Hz - 2 x M20     FDB258KCM     2 x 58W - 230V - 50 Hz - 2 x M20     FDB258KCM       PB SERIES (ZONES 1 & 2 - 21 & 22)     FLOODUGHT EXPLOSIONPROOF CLASS Ex do IB HGH PRESSURE SODUM     CATALOG NUM	FE SERIES (ZONES 1 & 2 – 21 & 22	2) ①			
L x 36W - 110/254 - 50/60 Hz   FEB236BUSN   FEB236BUSN     FN SERIES (ZONES 2 - 21 & 22)   Image: Catalog NUMBERS   Catalog NUMBERS     C x 18W - 220/240 - 50/60 Hz   FN258BUSN   FN258BUSN     C x 18W - 220/240 - 50/60 Hz   FN258BUSN   FN218BKSNN     C x 18W - 220/240 - 50/60 Hz   FN236BKSNN   FN8236BKSNN     C x 18W - 220/240 - 50/60 Hz   FN236BKSNN   FN8236BKSNN     C x 36W - 220/240 - 50/60 Hz   FN8236BKSNN   FN8236BKSNN     C x 36W - 220/240 - 50/60 Hz   FN8236BKSNN   FN8258BKSNN     FN SERIES (ZONES 1 & 2 - 21 & 22)   FUORESCENT LIGHTING EXPLOSIONPROOF CLASS Ex d   Catalog NUMBERS     C x 18W - 230V - 50 Hz - 2 x M20   FD8236KCM   2 x 36W - 230V - 50 Hz - 2 x M20   FD8236KCM     C x 18W - 230V - 50 Hz - 2 x M20   FD8258KCM   2 x 56W - 230V - 50 Hz - 2 x M20   FD8258KCM     PB SERIES (ZONES 1 & 2 - 21 & 22)   Image: Catalog NUMBERS   PM1125253/B   PM21253/B     PD SERIES (ZONES 2 - 21 & 22)   FLOODLIGHT EXPLOSIONPROOF CLASS Ex de IB HGH PRESSURE SODIUM   Catalog NUMBERS     I 100 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL153/B   PM21253/B     PN SERIES (ZONES 2 - 21 & 22)   Imageeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee			(NON-ARMORED CABLE)		
L x 58W - 110/254 - 50/60 Hz FEB258BUSN FEB258BUSN   FN SERIES (ZONES 2 - 21 & 22) Image Catalog NUMBERS (ARMORED CABLE) Catalog NUMBERS (ARMORED CABLE)   L mass cable glaving		2 x 18W - 110/254 - 50/60 Hz	FEB218BUSN	FEB218BUSA	
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FLUGRESCENT LIGHTING EXPLOSIONPROOF CLASS EX AR INACATALOG NUMBERS (NON-ARMORED CABLE) I MES CABLE GLAND SUPPLIEDCATALOG NUMBERS (ARMORED CABLE)2 x 18 W - 220/240 - 50/60 HzFNB218BKSNNFNB218BKSAN 2 x 36 W - 220/240 - 50/60 HzFNB236BKSNNFNB236BKSAN 2 x 58 W - 220/240 - 50/60 HzFND258BKSNNFNB236BKSAN 2 x 58 W - 220/240 - 50/60 HzFNB258BKSNNFNB236BKSAN 2 x 58 W - 220/240 - 50/60 HzFLUGRESCENT LIGHTING EXPLOSIONPROOF CLASS EX dCATALOG NUMBERS 2 x 18 W - 230 V - 50 Hz - 2 x M20FDB218XCM 2 B236XCM 2 x 36 W - 230 V - 50 Hz - 2 x M20FDB258KCKPB SERIES (ZONES 1 & 2 - 21 & 22)FLOODLIGHTS EXPLOSIONPROOF CLASS EX d IIB HIGH PRESSURE SODIUM 2 x 36 W - 230 V - 50 Hz - 2 x M20CATALOG NUMBERS FDB258XCM 2 x 58 W - 230 V - 50 Hz - 2 x M20FDB258XCM 2 x 36 W - 230 V - 50 Hz - 2 x M20FDB258XCM FDB258XCMPB SERIES (ZONES 1 & 2 - 21 & 22)FLOODLIGHTS EXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUM 2 x 50 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied 400 W - 230/240V - 50 Hz - 1 M20 Cable Gland SuppliedPN SERIES (ZONES 2 - 21 & 22)FLOODLIGHT EXPLOSIONPROOF CLASS Ex nr 150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied 400 W - 230/240V - 50 Hz - 1 M20 Cable Gland SuppliedPN SERIES (ZONES 1 & 2 - 21 & 22)I SO W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied 250 W - 230/240V - 50 Hz - 1 M20 Cable Gland SuppliedPN SERIES (ZONES 1 & 2 - 21 & 22)I SO W - 230/240V - 50 Hz - 1 M20 Cable Gla		2 x 58W – 110/254 – 50/60 Hz	FEB258BUSN	FEB258BUSA	
HUDRESCENT LIGHTING   NUMAEMORE CABLE)   CATALOG NUMBERS     2 x 18W - 220/240 - 50/60 Hz   FNB218BKSNN   FNB218BKSNN   FNB218BKSNN     2 x 18W - 220/240 - 50/60 Hz   FNB236BKSNN   FNB218BKSNN   FNB236BKSNN     2 x 58W - 220/240 - 50/60 Hz   FNB258BKSNN   FNB258BKSNN   FNB258BKSNN     FD SERIES (ZONES 1 & 2 - 21 & 22)   O   FUDRESCENT LIGHTING EXPLOSIONPROOF CLASS Ex d   CATALOG NUMBERS     2 x 18W - 230V - 50 Hz - 2 x M20   FDB258KCM   2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM     2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM   2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM     2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM   2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM     PB SERIES (ZONES 1 & 2 - 21 & 22)   FLOODLIGHTS EXPLOSIONPROOF CLASS Ex de IIB HICH PRESSURE SODIUM   CATALOG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBA15XJB   PBA15XJB     PN SERIES (ZONES 2 - 21 & 22)   FLOODLIGHT EXPLOSIONPROOF CLASS Ex nr   CATALOG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBA125XJB   PBA140XJB     PN SERIES (ZONES 2 - 21 & 22)   IS0 W - 230/240V - 50 Hz   PNN1115ACXJ   PNN1115ACXJ     150 W - 230/240V - 50 Hz	<b>FN SERIES (ZONES 2 – 21 &amp; 22)</b> ①				
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L x 58W - 220/240 - 50/60 Hz     FNB258BKSNN     FNB258BKSNN       FD SERIES (ZONES 1 & 2 - 21 & 22 I)     CATALOG NUMBERS       L x 18W - 230V - 50 Hz - 2 x M20     FDB218XCM       L x 36W - 230V - 50 Hz - 2 x M20     FDB236XCM       2 x 58W - 230V - 50 Hz - 2 x M20     FDB258XCM       2 x 58W - 230V - 50 Hz - 2 x M20     FDB258XCM       2 x 58W - 230V - 50 Hz - 2 x M20     FDB258XCM       PB SERIES (ZONES 1 & 2 - 21 & 22)     FDB258XCM       D SERIES (ZONES 1 & 2 - 21 & 22)     FDB258XCM       S S W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied     PBAL15XJB       2 50 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied     PBAL25XJB       400 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied     PBAL25XJB       9 FN SERIES (ZONES 2 - 21 & 22)     FLOODLIGHT EXPLOSIONPROOF CLASS Ex nr     CATALOG NUMBERS       150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied     PBAL25XJB     PBAL40XJB       PN SERIES (ZONES 2 - 21 & 22)     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied     PBAL25XJB       150 W - 230/240V - 50 Hz     PNM1L15AGX     PNM1L15APX     PM1L25APX       150 W - 230/240V - 50 Hz     PNM1L15AGX     PNM1L25APX     PNM1L25APX       150 W - 230/240V		2 x 18W - 220/240 - 50/60 Hz	FNB218BKSNN	FNB218BKSAN	
FD SERIES (ZONES 1 & 2 - 21 & 22) ①     FLUORESCENT LIGHTING EXPLOSIONPROOF CLASS Ex d   CATALOG NUMBERS     2 x 18W - 230V - 50 Hz - 2 x M20   FDB218XCM     2 x 36W - 230V - 50 Hz - 2 x M20   FDB236XCM     2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM     PB SERIES (ZONES 1 & 2 - 21 & 22)     FLOODLIGHTS EXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUM   CATALOG NUMBERS     FLOODLIGHT EXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUM   CATALOG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL15XJB   PBAL25XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB   PBAL40XJB     PN SERIES (ZONES 2 - 21 & 22)     FLOODLIGHT EXPLOSIONPROOF CLASS Ex nn   CATALOG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL40XJB     PN SERIES (ZONES 2 - 21 & 22)     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L15AFXJ     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L15AFXJ     150 W - 230/240V - 50 Hz   PNM1L25AGXJ   PNM1L15AFXJ     150 W - 230/240V - 50 Hz   PNM1L25AGXJ   PNM1L25AFXJ     150 W - 230/240V		2 x 36W – 220/240 – 50/60 Hz	FNB236BKSNN	FNB236BKSAN	
FLUORESCENT LIGHTING EXPLOSIONPROOF CLASS Ex   CATALOG NUMBERS     2 x 18W - 230V - 50 Hz - 2 x M20   FDB218XCM     2 x 36W - 230V - 50 Hz - 2 x M20   FDB236XCM     2 x 58W - 230V - 50 Hz - 2 x M20   FDB236XCM     2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM     PB SERIES (ZONES 1 & 2 - 21 & 22)   FDB258XCM     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL15XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL35XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     PN SERIES (ZONES 2 - 21 & 22)   PBAL40XJB     PN SERIES (ZONES 2 - 21 & 22)   PNM1L15APXJ     150 W - 230/240V - 50 Hz   PNM1L15APXJ     PN SERIES (ZONES 2 - 21 & 22)   PNM1L15APXJ     150 W - 230/240V - 50 Hz   PNM1L15APXJ     150 W - 230/240V - 50 Hz   PNM1L15APXJ     150 W - 230/240V - 50 Hz   PNM1L15APXJ     250 W - 230/240V - 50 Hz   PNM1L15APXJ     250 W - 230/240V - 50 Hz   PNM1L40AGXJ     150 W - 230/240V - 50 Hz   PNM1L40AGXJ     250 W		2 x 58W – 220/240 – 50/60 Hz	FNB258BKSNN	FNB258BKSAN	
2 x 18W - 230V - 50 Hz - 2 x M20   FDB218XCM     2 x 36W - 230V - 50 Hz - 2 x M20   FDB236XCM     2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM     2 x 58W - 230V - 50 Hz - 2 x M20   FDB258XCM     PB SERIES (ZONES 1 & 2 - 21 & 22)     FLOODLIGHTS EXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUM     CATAL OG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL15XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     400 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     PN SERIES (ZONES 2 - 21 & 22)     FLOODLIGHT EXPLOSIONPROOF CLASS Ex nR HIGH PRESSURE SODIUM 2 M20 CABLE ENTRIES     150 W - 230/240V - 50 Hz   PNN1L15AGXJ   PNN1L15APXJ     150 W - 230/240V - 50 Hz   PNN1L15AGXJ   PNN1L15APXJ     150 W - 230/240V - 50 Hz   PNN1L15AGXJ   PNN1L15APXJ     150 W - 230/240V - 50 Hz   PNN1L25AGXJ   PNN1L25APXJ     150 W - 230/240V - 50 Hz   PNN1L25AGXJ   PNN1L25APXJ     150 W - 230/240V - 50 Hz   PNN1L25AGXJ   PNN1L40APXJ     250 W - 230/240V - 50 Hz   PNN1L40AGXJ   PNN1L40APXJ     150 W - 230/240V - 50 Hz   PNN1L25AGXJ	FD SERIES (ZONES 1 & 2 – 21 & 22	2) ①			
2 x 36W - 230V - 50 Hz - 2 x M20FDB236XCM 2 x 58W - 230V - 50 Hz - 2 x M20FDB258XCMPB SERIES (ZONES 1 & 2 - 21 & 22)FLOODLIGHT SEXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUMCATALOG NUMBERS150 W - 230/240V - 50 Hz - 1 M20 Cable Gland SuppliedPBAL15XJB250 W - 230/240V - 50 Hz - 1 M20 Cable Gland SuppliedPBAL25XJBPO SERIES (ZONES 2 - 21 & 22)FLOODLIGHT EXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUMCATALOG NUMBERSPN SERIES (ZONES 2 - 21 & 22)FLOODLIGHT EXPLOSIONPROOF CLASS Ex nP 400 W - 230/240V - 50 Hz - 1 M20 Cable Gland SuppliedPBAL25XJB PBAL40XJBPN SERIES (ZONES 2 - 21 & 22)FLOODLIGHT EXPLOSIONPROOF CLASS Ex nP 400 W - 230/240V - 50 HzCATALOG NUMBERS (CATALOG NUMBERS (CATALOG NUMBERS) (POLYCARBONATE LENS)150 W - 230/240V - 50 HzPNM1L15AGXJPNM1L15APXJ 250 W - 230/240V - 50 HzPNM1L15APXJ 250 W - 230/240V - 50 HzPNM1L25AGXJPNM1L25APXJ 400 W - 230/240V - 50 HzPNM1L25APXJ 200 W - 230/240V - 50 HzPNM1L25APXJ PNM1L25APXJ 400 W - 230/240V - 50 HzPNM1L25APXJ PNM1L25APXJ 400 W - 230/240V - 50 HzPNM1L25APXJ PNM1L25APXJFDBAES SERIES (ZONES 1 & 2 - 2 & 22)Ex d LED EMERGENCY LIGHTING SYSTEMCATALOG NUMBERS FCATALOG NUMBERS FCATALOG NUMBERS FDBAESLEDEM Spac		FLUORESCENT LIGHTING EXPLOSIONPROOF CLASS Ex d			
PDB SERIES (ZONES 1 & 2 - 21 & 22)   FDB258XCM     FLOODLIGHTS EXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUM   CATALOG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL15XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     400 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     PN SERIES (ZONES 2 - 21 & 22)     Image: Philophilophilophilophilophilophilophilop		2 x 18W – 230V – 50 Hz – 2 x M20		FDB218XCM	
PB SERIES (ZONES 1 & 2 - 21 & 22)     FLOODLIGHTS EXPLOSIONPROOF CLASS Ex de IB HIGH PRESSURE SODIUM   CATALOG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL15XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     400 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     PN SERIES (ZONES 2 - 21 & 22)     FLOODLIGHT EXPLOSIONPROOF CLASS Ex nR HIGH PRESSURE SODIUM 2 M20 CABLE ENTRIES   CATALOG NUMBERS (POLYCARBONATE LENS)     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L15APXJ     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L15APXJ     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L15APXJ     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L15APXJ     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L25APXJ     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L25APXJ     150 W - 230/240V - 50 Hz   PNM1L15AGXJ   PNM1L25APXJ     160 W - 230/240V - 50 Hz   PNM1L25AGXJ   PNM1L25APXJ     160 W - 230/240V - 50 Hz   PNM1L40AGXJ   PNL1L40APXJ		2 x 36W - 230V - 5	2 x 36W – 230V – 50 Hz – 2 x M20		
FLOODLIGHTS EXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUM   CATALOG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL15XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     400 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     PN SERIES (ZONES 2 - 21 & 22)   FLOODLIGHT EXPLOSIONPROOF CLASS Ex nR   CATALOG NUMBERS   CATALOG NUMBERS     150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB   PBAL40XJB     PN SERIES (ZONES 2 - 21 & 22)   FLOODLIGHT EXPLOSIONPROOF CLASS Ex nR   CATALOG NUMBERS   CATALOG NUMBERS     150 W - 230/240V - 50 Hz   PNMIL15AGXJ   PNMIL15APXJ   POVYCARBONATE LENS)     150 W - 230/240V - 50 Hz   PNMIL15AGXJ   PNMIL25APXJ     150 W - 230/240V - 50 Hz   PNMIL15AGXJ   PNMIL25APXJ     250 W - 230/240V - 50 Hz   PNMIL40AGXJ   PNL1L40APXJ     160 W - 230/240V - 50 Hz   PNMIL40AGXJ   PNL1L40APXJ     400 W - 230/240V - 50 Hz   PNMIL40AGXJ   PNL1L40APXJ     50 W - 230/240V - 50 Hz   PNMIL40AGXJ   PNL1L40APXJ     60 W - 230/240V - 50 Hz   PNMIL65AGXL   PNMIL5AGXL     60 W - 230/240V - 50 Hz   PNMIL65AGXL   PNMIL5AGXL     60 W		2 x 58W - 230V - 50	2 x 58W – 230V – 50 Hz – 2 x M20		
150 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL15XJB     250 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL25XJB     400 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL40XJB     FILE S (ZONES 2 - 21 & 22)     Image: Signed	PB SERIES (ZONES 1 & 2 – 21 & 22	2)			
250 W - 230/240V - 50 Hz - 1 M20 Cable Gland SuppliedPBAL25XJB400 W - 230/240V - 50 Hz - 1 M20 Cable Gland SuppliedPBAL40XJBPN SERIES (ZONES 2 - 21 & 22)Image: Series (ZONES 2 - 21 & 22)Image: Series (ZONES 2 - 21 & 22)Image: Series (ZONES 1 & 2 - 21 & 22)Ex d LED EMERGENCY LIGHTING SYSTEMCATALOG NUMBERS (cLASS LENS)PNM1L15AGXJPNM1L15AGXJPNM1L25AGXJPNM1L25AGXJPNM1L25AGXJPNM1L25AGXJPNM1L25AGXJPNM1L25AGXJPNM1L25AGXJPNM1L25AGXJPNM1L25AGXJPNM1L26APXJPDAES SERIES (ZONES 1 & 2 - 21 & 22)Ex d LED EMERGENCY LIGHTING SYSTEMCATALOG NUMBERS (pOLYCARBONATE LENS)Series (ZONES 1 & 2 - 21 & 22)Ex d LED EMERGENCY LIGHTING SYSTEMCATALOG NUMBERS (pOLYCARBONATE LENS)PDBAESLEDEM (Scape Route Lighting – Rated Flow 55 Lumens – 2 M20 Cable Entries)FDBAESLEDEM (pDBAESLEDSLM)PDBAESLEDEM (PDBAESLEDSLM)		FLOODLIGHTS EXPLOSIONPROOF CLASS	FLOODLIGHTS EXPLOSIONPROOF CLASS Ex de IIB HIGH PRESSURE SODIUM		
400 W - 230/240V - 50 Hz - 1 M20 Cable Gland Supplied   PBAL40XJB     PN SERIES (ZONES 2 - 21 & 22)     Image: Series (Zones 2 - 21 & 22)   Image: Social Mage: So	VA. a a a a	150 W – 230/240V – 50 Hz – 1	150 W – 230/240V – 50 Hz – 1 M20 Cable Gland Supplied		
N     PN SERIES (ZONES 2 – 21 & 22)     Image: provide the provided the provide the provided the provide the provided the		250  W - 230/240 V - 50  Hz - 1	250 W – 230/240V – 50 Hz – 1 M20 Cable Gland Supplied		
FLOODLIGHT EXPLOSIONPROOF CLASS Ex nR   CATALOG NUMBERS   CATALOG NUMBERS     IFLOODLIGHT EXPLOSIONPROOF CLASS Ex nR   CATALOG NUMBERS   CATALOG NUMBERS     IFLOODLIGHT PRESSURE SODIUM 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAPXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAPXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAPXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAPXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   FOBAESLEDEM   FDBAESLEDEM     Ifter Pressure Sodium 2 M20 CABLE Entries   FDBAESLEDEM   FDBAESLEDEM     Ifter Pressure Sodium 2 M20 CABLE Entries   FDBAESLEDEM   FDBAESLEDEM		400 W – 230/240V – 50 Hz – 1 M20 Cable Gland Supplied		PBAL40XJB	
FLOODLIGHT EXPLOSIONPROOF CLASS Ex nR   CATALOG NUMBERS   CATALOG NUMBERS     IFLOODLIGHT EXPLOSIONPROOF CLASS Ex nR   CATALOG NUMBERS   CATALOG NUMBERS     IFLOODLIGHT PRESSURE SODIUM 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAGXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAPXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAPXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAPXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   PNMILISAPXJ   PNMILISAPXJ     Ifter Pressure Sodium 2 M20 CABLE ENTRIES   FOBAESLEDEM   FDBAESLEDEM     Ifter Pressure Sodium 2 M20 CABLE Entries   FDBAESLEDEM   FDBAESLEDEM     Ifter Pressure Sodium 2 M20 CABLE Entries   FDBAESLEDEM   FDBAESLEDEM	PN SERIES (70NES 2 - 21 & 22)				
250 W - 230/240V - 50 HzPNM1L25AGXJPNM1L25APXJ400 W - 230/240V - 50 HzPNM1L40AGXJPNL1L40APXJFDBAES SERIES (ZONES 1 & 2 - 2 I & 22)Ex d LED EMERGENCY LIGHTING SYSTEMCATALOG NUMBERSEscape Route Lighting - Rated Flow 55 Lumens - 2 M20 Cable EntriesFDBAESLEDEMBigae Lighting - Rated Flow 540 Lumens - 2 M20 Cable EntriesFDBAESLEDSLM					
250 W - 230/240V - 50 HzPNM1L25AGXJPNM1L25APXJ400 W - 230/240V - 50 HzPNM1L40AGXJPNL1L40APXJFDBAES SERIES (ZONES 1 & 2 - 2 I & 22)Ex d LED EMERGENCY LIGHTING SYSTEMCATALOG NUMBERSEscape Route Lighting - Rated Flow 55 Lumens - 2 M20 Cable EntriesFDBAESLEDEMBigae Lighting - Rated Flow 540 Lumens - 2 M20 Cable EntriesFDBAESLEDSLM		150 W – 230/240V – 50 Hz	PNM1L15AGXJ	PNM1L15APXJ	
Ex d LED EMERGENCY LIGHTING SYSTEM   CATALOG NUMBERS     Escape Route Lighting – Rated Flow 55 Lumens – 2 M20 Cable Entries   FDBAESLEDEM     Space Lighting – Rated Flow 540 Lumens – 2 M20 Cable Entries   FDBAESLEDSLM		250 W – 230/240V – 50 Hz	PNM1L25AGXJ	PNM1L25APXJ	
Ex d LED EMERGENCY LIGHTING SYSTEMCATALOG NUMBERSEscape Route Lighting – Rated Flow 55 Lumens – 2 M20 Cable EntriesFDBAESLEDEMSpace Lighting – Rated Flow 540 Lumens – 2 M20 Cable EntriesFDBAESLEDSLM		400 W - 230/240V - 50 Hz	PNM1L40AGXJ	PNL1L40APXJ	
Escape Route Lighting – Rated Flow 55 Lumens – 2 M20 Cable Entries   FDBAESLEDEM     Space Lighting – Rated Flow 540 Lumens – 2 M20 Cable Entries   FDBAESLEDSLM	FDBAES SERIES (ZONES 1 & 2 – 2	21 & 22)			
Space Lighting – Rated Flow 540 Lumens – 2 M20 Cable Entries     FDBAESLEDSLM		Ex d LED EMERGENCY L	Ex d LED EMERGENCY LIGHTING SYSTEM		
Space Lighting – Rated Flow 540 Lumens – 2 M20 Cable Entries     FDBAESLEDSLM	EVIT	Escape Route Lighting – Rated Flow 55 Lu	scape Route Lighting – Rated Flow 55 Lumens – 2 M20 Cable Entries		
				FDBAESLEDSLM	

4



FNES SERIES (2	ZONES 2 -	21 & 22)
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FNES SERIES (ZONES 2 – 21 & 2			
-	CATALOG NUMBER		
	Escape Route Lighting – Rated Flow 55 Lumens		FNESLEDEU
and the second s	Space Lighting – Rated Flow 540 Lumer	15	FNESLEDSLU
TCH SERIES (ZONES 1 & 2 – 21	& 22)		
	Ex eib FLASHLIGHT		CATALOG NUMBER
	Halogen 2.8V – 0.5A		TCH12H
	– 2 R20 or LR20 Batteries, Not Supplie	d	
PRE SERIES (ZONES 1 & 2 – 21	& 22)		
	EXPLOSIONPROOF CLASS Ex de - 1 M20 CABLE GLAND SUPPLIED	SOCKET Catalog Numbers	PLUG Catalog Number
	2P + T – 16A – 200/250V – 50/60 Hz	PRE316RB	PRE316PB
	3P + T – 16A – 380/415V – 50/60 Hz	PRE416RR	PRE416PR
•	3P + T – 32A – 380/415V – 50/60 Hz	PRE432RR	PRE432PR
NICODE 2 SERIES (ZONES 1 &	2 – 21 & 22)		
F	Ex de CONTROL STATION	MATERIAL	CATALOG NUMBER
	Emergency Stop (1 "Closed" + 1 "Open") – 2 x M20	Polyamide	U41W2D3
	On/Off ("Open + Closed" + "Open + Closed") – 2 x M20	Polyamide	U42W2A3A3
	Red Pilot Light + On/Off ("Open + Closed" + "Open + Closed") – 2 x M20	316 Stainless Steel	U62W2PRA3A
BDR SERIES (ZONES 1 & 2 – 2)	l & 22)		
	Ex d ALUMINIUM JUNCTION BOX		CATALOG NUMBER
	3 M20 Cable Entries	3 M20 Cable Entries	
	4 M20 Cable Entries	4 M20 Cable Entries	
	Terminal Block (4 Terminals, Capacity 4 x 4 $mm^2$ or 2	x 6 mm <sup>2</sup> )	TBP44
BEL SERIES (ZONES 1 & 2 – 21	. & 22)		
	Ex e POLYCARBONATE JUNCTION BOX 2.5/4 mm <sup>2</sup> - 660 V		CATALOG NUMBER
	4 PG16 Cable Entries With Integrated Cable Glands	4 PG16 Cable Entries With Integrated Cable Glands	
	4 M20 Cable Entries for Armored Cables		JBEL1A4M20
WE SERIES (ZONES 1 & 2 – 21	& 22)		
	Ex de 16A POLYAMIDE SWITCH (2 M20 CABLE GLANDS SUPPLIED)		CATALOG NUMBER
	2 Poles – 2 M20 Cable Entries		SWE016S201A
	Two-way – 2 M20 Cable Entries		SWE016C101A
WD SERIES (ZONES 1 & 2 – 21	& 22)		
	Ex d 16A ALUMINIUM SWITCH		CATALOG NUMBER
	EX & 16A ALUMINIUM SWITCH		
	2 Poles – 2 M20 Cable Entries		SWD016S200A

EEXe SERIES (ZONES 1 & 2 - 21 & 22)

	CABLE GLAND (POLYAMIDE)	CATALOG NUMBERS
	M20	095605
	M25	095606
	M32	095757
A2F SERIES (NON-ARMORED CABL	E) (ZONES 1 & 2 – 21 & 22)	
	CABLE GLAND (NICKEL PLATED BRASS)	CATALOG NUMBERS
And a	M20S	20SA2F5
	M20	20A2F5
	M25	25A2F5
	M32	32A2F5
E1FX SERIES (ARMORED CABLE) (Z	CONES 1 & 2 – 21 & 22)	
	CABLE GLAND (NICKEL PLATED BRASS)	CATALOG NUMBERS
	M20S	20SE1FX5
	M20	20E1FX5
	M25	25E1FX5
	M32	32E1FX5
13 SERIES (ARMORED CABLE) (ZOI	NES 1 & 2 – 21 & 22)	
	CABLE GLAND (NICKEL PLATED BRASS)	CATALOG NUMBERS
	M20S	20ST35
	M20	20T35
	M25	25T35
	M32	32T35
PX2K SERIES (ARMORED CABLE) (2	ZONES 1 & 2 – 21 & 22)	
	BARRIER GLAND (NICKEL PLATED BRASS)	CATALOG NUMBERS
	M20S	20SPX2K5
	M20	20SPX2K5
	M25	25PX2K5
	M32	32PX2K5



# (ZONES 1 & 2 - 21 & 22)



Ex ia Stainless Steel Junction Box



Coffret d'instrumention "Inox" Ex ia



Ex d Panelboard with 8 Branch Circuit Breakers Coupled with Ex e Polyester Junction Box

# NEW



Ex d Control Panel



Ex d Double Sided Switchrack

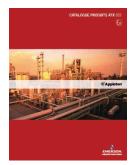


Ex de P Series PowerPlex™ Distribution Panelboards

LED LIGHTING — ATEX/IECEx (ZONES 2 – 21 & 22)



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