TPR22-BM Series
NSR22-BM Series
NSR66-BM Series
NSR66-BM3 Series
NSR22-PS Series
TPR22-PS Series
NSR66-PS Series
NSR66-PS3 Series

BELT MISALIGNMENT SWITCH
INSTALLATION AND OPERATING MANUAL

KBT Elektrik Malzemeleri San. ve Tic. A.Ş.

INFORMATIONS

NSR / TPR Series conveyor belt misalignment switches are designed to stop conveyor systems during emergency or maintenance and repair work. Designed to withstand heavy conditions, makes it suitable for most industrial applications that are reliable in the long term.With belt misalignment switches, the system saves money by reducing down-time and maintenance costs.

This type of belt misalignment switches are mounted on the left and right sides of the belt in pairs. In case of misalignment of the belt, it is shifted against the reset force of the inner spring by touching the lever. Max. lever sliding angle is 75 °.

In case the belt deviates from the target; The latch can be released by lifting the reset handle. Reset can also be done automatically.

SAFETY WARNING

Ensure that the conveyor is electrically isolated and stationary before carrying out any work any conveyor equipment. Only a competent electrician should carry out electrical installation,repairs or maintenance.

PREPARATIONS REQUIRED BEFORE INSTALLATION

1- In order to install the switch or switches, flat and solid console or consoles should be determined in the frame of the conveyor belt and the mounting points should be planned.

2- Necessary mechanical and electrical hand tools for installation must be provided.

3- Necessary work clothes should be put-on in terms of work safety.

4- Before electrical connection, electrical energy should be disabled.

MECHANICAL INSTALLATION

1- Adjust the switch as the switch roller points towards the belt area,note that the conveyor belt is in it's normal position and the carrying roller is at a medium height. It should have the same height as the edge of the belt. The switch is fixed with two suitable screws.

2- The alignment switches are used on either side of conveyor systems to provide a fail-safe stop mechanism for belts that have misaligned left or right. They are typically installed at the header and tail pulleys on all conveyors and at trippers drive on belts. Once activated these switches isolate the control circuits of the motors driving the conveyors and other process equipment.

3- The alignment switch roller surface should not be in contact with the belt under correct alignment conditions. We recommend a 10 clearance as per diagram below.

4- The alignment switch must be installed so that the roller on the lever is always at 90 degree to the conveyor belt for correct operation as per diagram below

NOTE

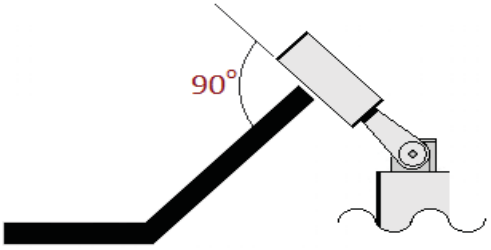
Firstly; Complete the mechanical installation of the switch, then complete the electrical installation.After all operations are complet-ed, the electrical energy can be activated and conveyor operation can be started.

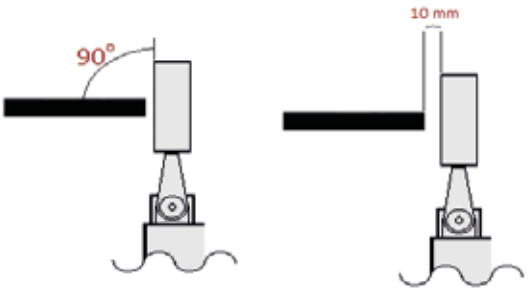
ELECTRICAL INSTALLATION

Open the cover of switch by loosening the four slotted lid screws. There are max. 3 micro switches in the installation space of the switch. Wire the contacts according to the requirements demanded by the line at-site. After wards put on the cover again and tighten screws with a torque of 3 Nm. Tighten the cable screwing according to the instructions.However, at a maximum torque of 6 Nm.

Control: It must be checked whether the switch is operationalized mechanically and electrically or not before the system turn on.

Maintenance: There is no need of any maintenance works for KBT conveyor belt safety switches due to prooven construction and high material quality.

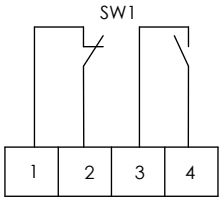




TPR22-BM Series
NSR22-BM Series
NSR66-BM Series
NSR66-BM3 Series
NSR22-PS Series
TPR22-PS Series
NSR66-PS Series
NSR66-PS3 Series

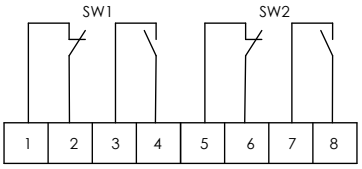
BELT MISALIGNMENT SWITCH
INSTALLATION AND OPERATING MANUAL

TPR22/NSR22 1 CONTACT



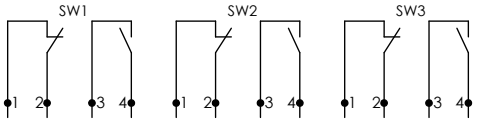
SIGNAL DEVICE POWER SUPPLY : ☐ 115 VAC ☐ 230 VAC

TPR22/NSR22 2 CONTACT



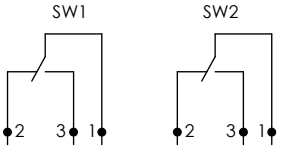
SIGNAL DEVICE POWER SUPPLY : ☐ 115 VAC ☐ 230 VAC

TPR22/NSR22 3 CONTACT

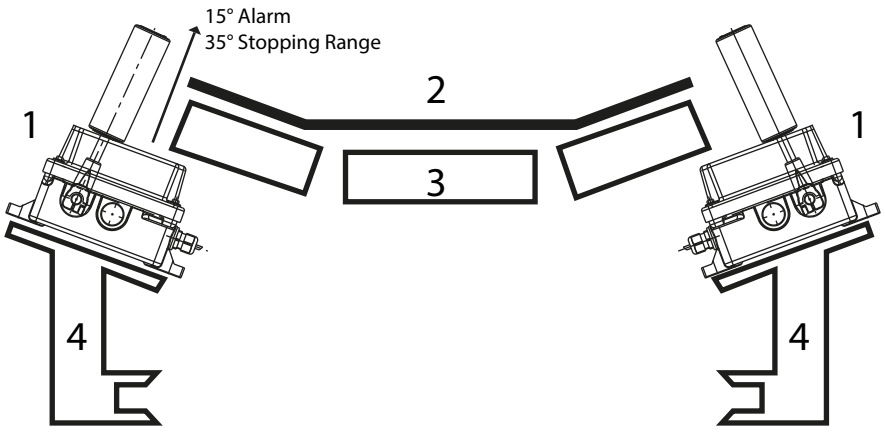


SIGNAL DEVICE POWER SUPPLY : ☐ 115 VAC ☐ 230 VAC

NS66 PR / NSR66 PR3



SIGNAL DEVICE POWER SUPPLY : ☐ 115 VAC ☐ 230 VAC



1- Roller Belt Switch
2- Belt
3- Conveyor Support Roller
4- Mounting Plate

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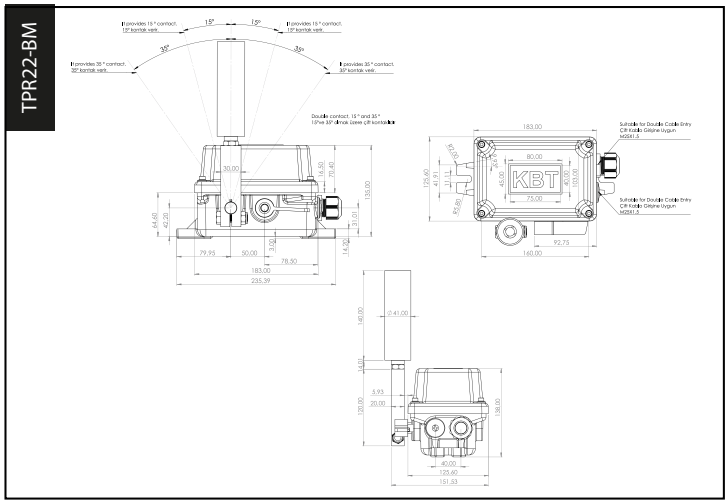
www.KBTelektrik.com

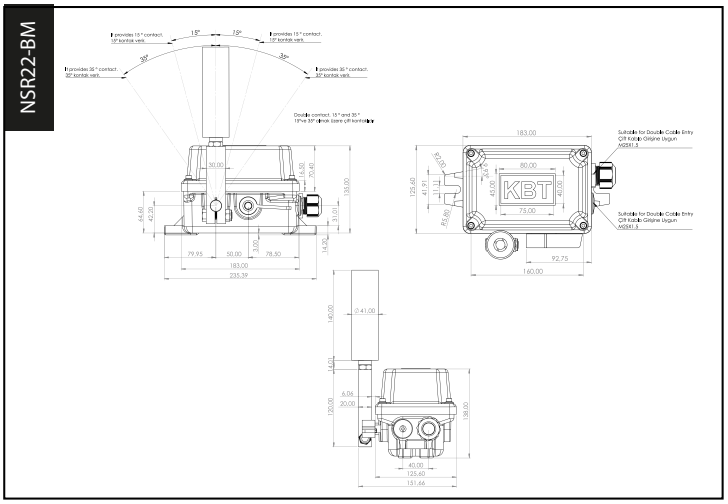
TPR22-BM Series
NSR22-BM Series
NSR66-BM Series
NSR66-BM3 Series
NSR22-PS Series
TPR22-PS Series
NSR66-PS Series
NSR66-PS3 Series

BELT MISALIGNMENT SWITCH
INSTALLATION AND OPERATING MANUAL

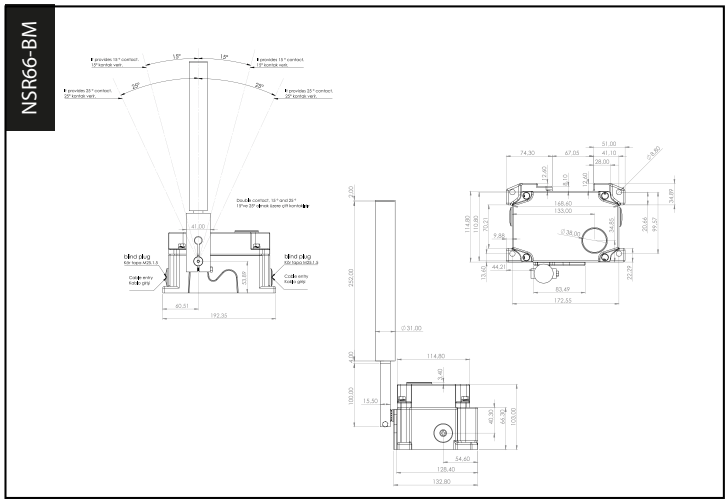
TPR22-BM



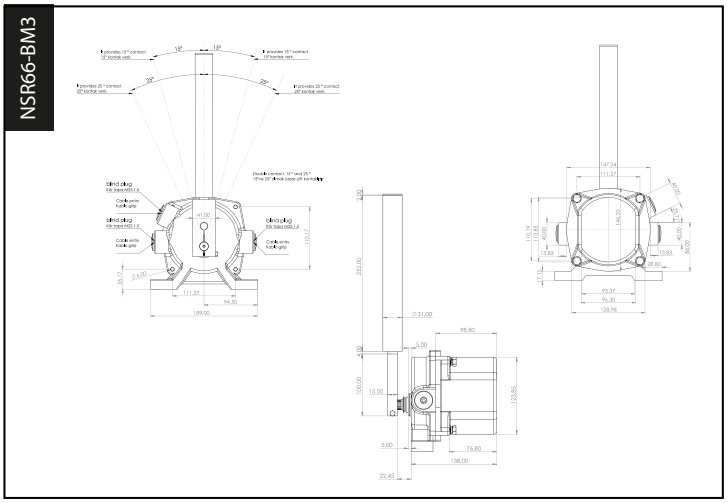
NSR22-BM



NSR66-BM



NSR66-BM3



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TPR22-BM Series
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NSR66-PS Series
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BELT MISALIGNMENT SWITCH
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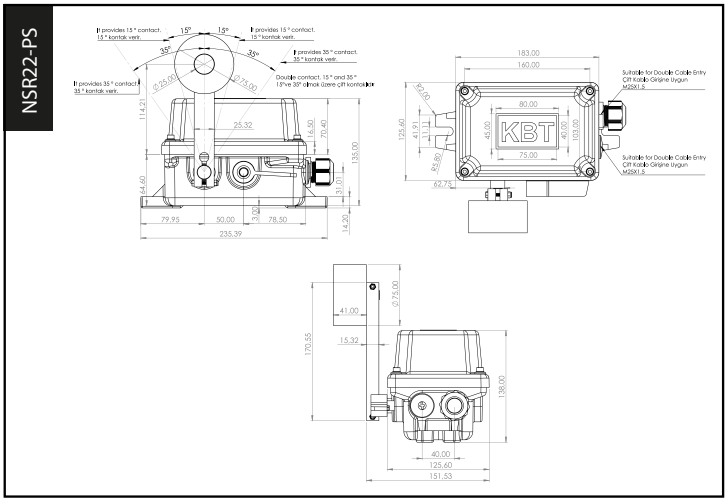
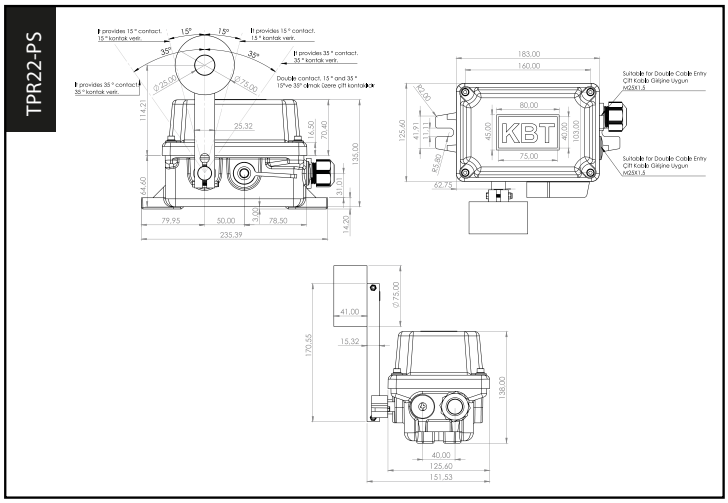
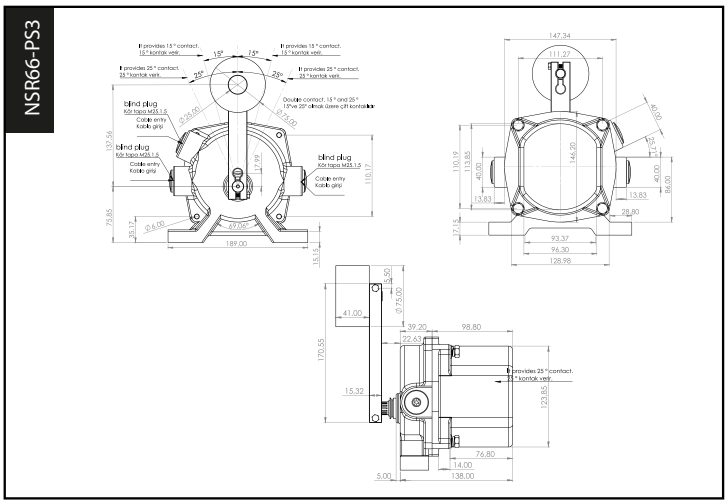
NSR22-PS



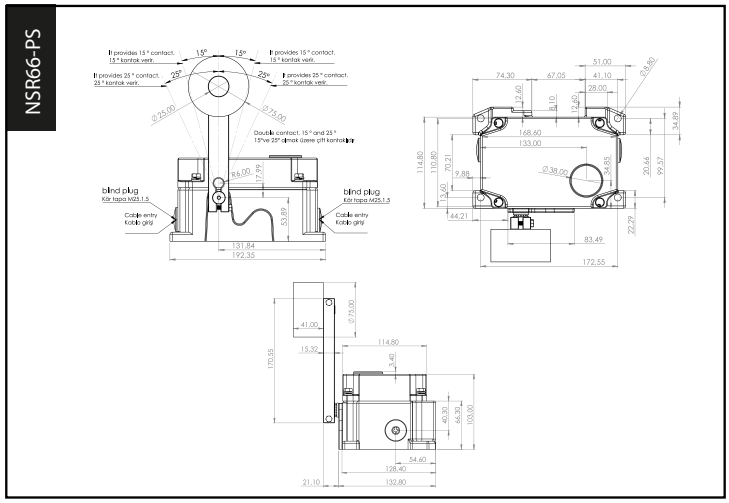
TPR22-PS

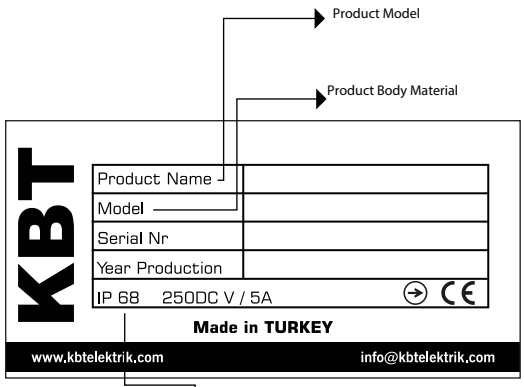


NSR66-PS3



NSR66-PS





Product Model

- Belt Misalignment Switch
- Pull Cord Switch
- Pull Cord Emergency Switch with Signal Lamp
- EX Conveyor Belt Switch
- Rope Connection Accessories
- Conveyor Belt Position Switch
- Conveyor Belt Damage Detector
- Mini Limit Switch
- Tilt Switch
- Tilt Switch Control Panels

Product Body Material

- TPR : BMC or ThermoPlastic Body
- NSR : Moulding (Metal) Body

CERTIFICATE

Attestation of Conformity

SERTİFİKA-CERTIFICATE-ZERTIFIKAT-CERTIFICATO-CERTIFICAT

Name and Address of Certificate Holder:
İMAJ TEKNİK ELEKTRİK ELEKTRONİK MALZEME SAN. VE TİC. LTD. ŞTİ.
Oruçreis Mah. Tekstilkent Ticaret Merkezi G2 Blok No:101 Esenler-İstanbul/Türkiye

Certificate Number: SE-219-03

Name and Address of Manufacturer:
İMAJ TEKNİK ELEKTRİK ELEKTRONİK MALZEME SAN. VE TİC. LTD. ŞTİ.
Oruçreis Mah. Tekstilkent Ticaret Merkezi G2 Blok No:101 Esenler-İstanbul/Türkiye

Date of Issue: 22-09-2018

Expiration Date: 22-09-2019

Product Name: Switch (Anahtar)

Report Number: LVD-219-03

Model No: KB-826 ; KB-826-2 ; KB-826-3

Page: 1 of 1

Test Required:
EN 60947-5-1:2004/A1:2009

The product meets the technical requirement of the above standards and hence fulfils the technical requirements of the following directives.

2014/35/EU

This certificate is only valid for the equipment and configuration described, in conjunction with the test data detailed above and with compliance with all applicable legal requirement for the product.

CE The CE Mark as shown below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

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Oruçreis Mah. Tesdikent Cad. Tekstilkent A21 10 I 102 Esenler/İstanbul
www.cgstestmerkezi.com

CERTIFICATE

Attestation of Conformity

Name and Address of Certificate Holder:
İMAJ TEKNİK ELEKTRİK ELEKTRONİK MALZEMELERİ SAN. VE TİC. LTD. ŞTİ.
Oruçreis Mah. Tekstilkent Ticaret Merkezi G2 Blok No:101 Esenler-İstanbul/Türkiye

Certificate Number: SE-219-04

Name and Address of Manufacturer:
İMAJ TEKNİK ELEKTRİK ELEKTRONİK MALZEMELERİ SAN. VE TİC. LTD. ŞTİ.
Oruçreis Mah. Tekstilkent Ticaret Merkezi G2 Blok No:101 Esenler-İstanbul/Türkiye

Date of Issue: 30-09-2019

Expiration Date: 30-09-2019

Brand: KBT

Test Report Number: LVD-219-04

Product Name: Tilt Switch

Model No: SS-43 ; CB-39 ; CB-39HT ; SS-43XX ; CB-39XX ; SP-22XX

Page: 1 of 1

Test Required:
EN 60529:1991/A2:2013

The product meets the technical requirement of the above standards and hence fulfils the technical requirements of the following directives.

2014/35/EU Low Voltage Directive

This certificate is only valid for the equipment and configuration described, in conjunction with the test data detailed above and with compliance with all applicable legal requirement for the product.

The CE Mark as shown below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

CE

SIGNATURE

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CERTIFICATE

Attestation of Conformity

SERTİFİKA-CERTIFICATE-ZERTIFIKAT-CERTIFICATO-CERTIFICAT

Name and Address of Certificate Holder:
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Oruçreis Mah. Tekstilkent Ticaret Merkezi G2 Blok No:101 Esenler-İstanbul/Türkiye

Certificate Number: SE-219-01

Name and Address of Manufacturer:
İMAJ TEKNİK ELEKTRİK ELEKTRONİK MALZEME SAN. VE TİC. LTD. ŞTİ.
Oruçreis Mah. Tekstilkent Ticaret Merkezi G2 Blok No:101 Esenler-İstanbul/Türkiye

Date of Issue: 22-09-2018

Expiration Date: 22-09-2019

Product Name: Belt Misalignment Switches - Bant Hizalama Şalteri / Pull Cord Switch - Halat Çekme Kablosu Anahtarı

Report Number: LVD-219-01 LVD-219-02

Model No: NSR22-PR-XX ; NSR22-BM-XX ; NSR22-PS-XX ; TPR22-PR-XX ; TPR22-BM-XX ; TPR22-PS-XX ; NSR66-XX NSR80-PR-XX ; NSR80-PR-XX ; NSRE35-BM-XX

Page: 1 of 1

Test Required:
EN 60204-1:2006/AC:2010 & EN 60529:1991/AC:1993

The product meets the technical requirement of the above standards and hence fulfils the technical requirements of the following directives.

2014/35/EU & 2006/42/EC Annex-1

This certificate is only valid for the equipment and configuration described, in conjunction with the test data detailed above and with compliance with all applicable legal requirement for the product.

CE The CE Mark as shown below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

CGS TEST HİZMETLERİ TEKNİK KONTROL VE BELGELENDİRME ANONİM ŞİRKETİ
Oruçreis Mah. Tesdikent Cad. Tekstilkent A21 10 I 102 Esenler/İstanbul
www.cgstestmerkezi.com

ISO 9001 : 2015

Registered CCPL

Registration Certificate

This is to certify that
The Quality Management Systems
of

KBT ELEKTRİK MALZEMELERİ SAN. VE TİC. A.Ş.

Carried out at following site:

Tekstilkent Ticaret Merkezi G2 - 256 Esenler 34235
İstanbul Türkiye

Has been found to conform to the Quality Management System Standard:

ISO 9001:2015

This certificate is valid for the following Product or Service ranges:

Design, Import and Marketing of Electronic Components for Devices and Electronic Control Circuits

(Cihazlar ve Elektronik Kontrol Devreleri için Elektronik Parçaların Tasarımı İthalatı ve Pazarlanması)

Certific ate no. : IAS/QMS/T1021
Issued on : 08/01/2021 1st Surveillance Due On: 08/ 12 /202 1
Validity Date : 07 /01/202 4 2ND Surveillance Due On: 08/ 12 /202 2

The validit y of certificate is subject to regular surveillance audit on or b-efore above mentioned dates and it's only v a l id after successful surveillance with co ntinuation letter issued by CCPL

To verify the status of the certificate, please v isit IAF SEARCH CERT w ebsite https://www.iafcertsearch.org/

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