FIESSLER ELEKTRONIK

AKAS® Safety Interface

AKFA

complete safety PLC for press brakes equipped with "Rexroth" hydraulics in connection with AKAS®_F and a safe speed measurement

complies with Performance Level PL e (ISO 13849-1)

complies with class 4 (EN 954-1 and IEC 61496, i.e. EN 61496)

Typ 4
EN 61496

extremely simple integration

low cable expenditure

minimum space requirement

CE

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Doku Nr.1266 Stand 18.10.2010/Aui

Application:

AKAS®_F+AKFA = complete safety PLC and safeguarding of a press brake equipped with "Rexroth" hydraulics, complies with class 4 EN 954, i.e. PL e EN 13849.
AKAS®_F : by using the interface AKFA, all press brake safety tasks are carried out in an extremely simple wav. without the need of additional terminals or relais.

Function:

AKFA enters and evaluates the valve position signals of the hydraulic contactors and transfers them integrated to the AKAS®_F.
By means of that, AKAS®_F verifies the correct functionality of the contactors and gives the safe release signal to the AKFA, so that the AKFA releases the contactor controls via 5 safe potential free normally open contacts.
The release of the contactors is stopped immediately as soon as:
-the protective field of the AKAS® is interrupted
- the protective doors are openend, - the emergency ON/OFF is activated, - an switching error within the con

Technical data:

Protection category	IP 20
Electric Data:	
Supply Voltage U_B DC	24V
Voltage tolerance	19,2 ... 30V DC
Residual ripple DC	max. 10%
Output contacts in accordance with EN 954-1	safety contacts: 5
Output breaking capacity at 240V AC 1A-1B, 2A-2B, 3A-3B, 4A-4B, 5A-5B	I_{min}: 0,01A, I_{max}: 6A ohmisch
Output breaking capacity at 160V AC 1A-1B, 2A-2B, 3A-3B, 4A-4B, 5A-5B	I_{min}: 0,01A, I_{max}: 6A ohmisch
Output breaking capacity at 24 V DC 1A-1B, 2A-2B, 3A-3B, 4A-4B, 5A-5B	I_{min}: 0,01A, I_{max}: 6A
Fuse for Supply voltage (external)	T1,0A/250V
Fuse for circuit breaker	6A slow
Delays:	
Switch-on delay	≤ 20 ms
Fall-delay	≤ 15 ms
General data:	
Contact material	AgC2O, self-cleaning, force-guided
Airgap creepage	DIN VDE 0110-1
Connection / wiring	pluggable screw terminals min. 0,5sqmm, max. 2,5 sqmm. Single conductor / multiple conductor with end splices
Dimensions (including connector)	H: 115,5 mm W: 114 mm D: 58 mm
Installation	top hat rail mounting (DIN rail)
Weight (including connector)	310 g
Ambient temperature	0° C ... 60°C
Switching cycle life time	>50 x 10^6 switching cycles

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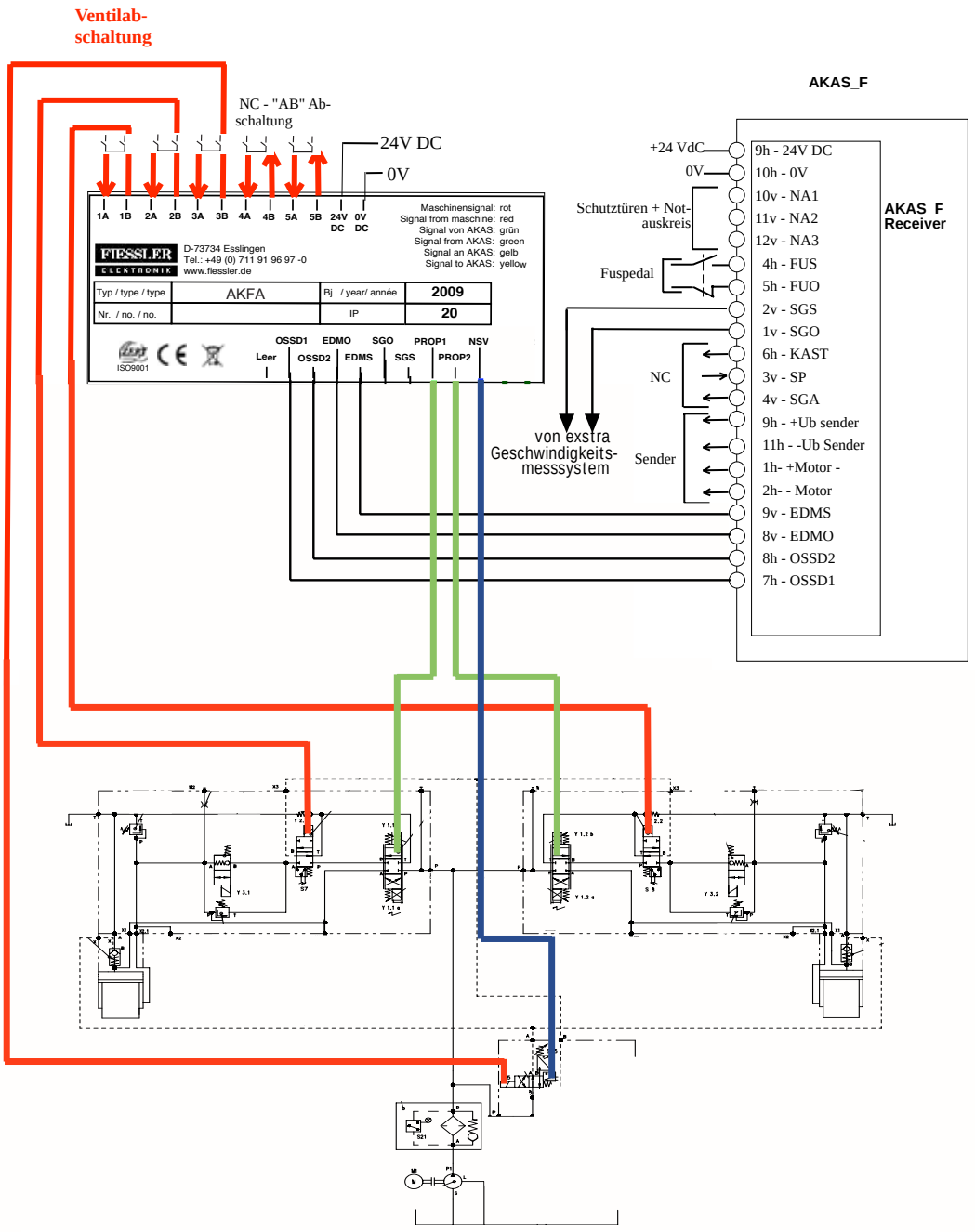
Wiring diagram:



Funktion	PROP1	PROP2	EG1	EG2	NSV
Stop	●	●			●
Eilgang					
Pressen					
Rückzug					

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Declaration of Conformity

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Fiessler Elektronik GmbH & Co. KG Kastellstr. 9 D -73734 Esslingen

GESCHÄFTSLEITUNG

Konformitäts-erklärung

(gemäß Anhang II 1 A 2006/42/EG)

Wir
Fiessler Elektronik
Kastellstr. 9
D-73734 Esslingen,

erklären in alleiniger Verantwortung, daß das Produkt
Abkantpresseninterface AKFH, AKFR, AKFA in Verbindung mit den AKAS LC II F, AKAS LC F, AKAS II F, AKAS 3 F, berührungsloswirkende Schutzeinrichtung Typ 4 nach EN 61496-1 zur Absicherung des Gefahrenbereiches von Abkantpressen nach EN 12622

auf die sich diese Erklärung bezieht, mit den folgenden Normen oder normativen Dokumenten übereinstimmen:
EN 61496-1:2008, IEC 61496-2:2006, EN 12622 (Final Draft 2009), EN ISO 13849-1:2008, EN62061_2005

Gemäß den Bestimmungen der Richtlinie
2006/42/EG
2004/108/EG

Die Schutzziele der Niederspannungsrichtlinie (2006/95/EG) wurden gemäß Anhang I, Nr. 1.5.1 der Maschinenrichtlinie eingehalten.

Die Geräte entsprechen der Laserklasse 1

Declaration of conformity

(according appendix II 1 A 2006/42/EG)

We
Fiessler Elektronik
Kastellstr. 9
D-73734 Esslingen,

declare under our sole responsibility that the product
pressbrake interface AKFH, AKFR, AKFA in conjunction with AKAS LC II F, AKAS LC F, AKAS II F, AKAS 3 F, electro-sensitive protective equipment type 4 according to EN 61496-1 for protecting the dangerous area of pressbrakes according to EN 12622

to which this declaration relates is in conformity with the following standards or other normative documents:
EN 61496-1:2008, IEC 61496-2:2006, EN 12622 (Final Draft 2009), EN ISO 13849-1:2008, EN62061_2005

following the provisions of Directive

2006/42/EG
2004/108/EG

The protection goals of the Low Voltage Directive (2006/95/EC) have been complied with in accordance of Annex I No.1.5.1 of the Machinery Directive.

The products are conform with the laser class 1

Modèle recommandé de déclaration de conformité

(conforme appendice II 1 A 2006/42/EG)

Nous
Fiessler Elektronik
Kastellstr. 9
D-73734 Esslingen,

déclaration sous notre seule responsabilité que le produit
interface de la presse plieuse AKFH, AKFR, AKFA, combinée avec AKAS LC II F, AKAS LC F, AKAS II F, AKAS 3 F Dispositif de protection électrosensible type 4 suivant EN 61496-1 pour la protection des zones dangereuse des presses plieuses suivant EN 12622

auquel se réfère cette déclaration est conforme aux normes ou autres documents normatifs:

EN 61496-1:2008, IEC 61496-2:2006, EN 12622 (Final Draft 2009), EN ISO 13849-1:2008, EN62061_2005

conformément aux dispositions de Directive
2006/42/EG
2004/108/EG

Les objectifs de protection de la directive "basse tension" (2006/95/CE) ont été respectées conformément à l'annexe I n ° 1.5.1 de la directive Machines.

Les produits sont conforme avec la classe laser 1

Folgende benannte Stelle hat eine positive Erklärung ausgestellt.

Kennnummer der benannten Stelle 0044
Prüfbescheinigung N° 44 205 10 38 18 52
Name und Anschrift:
TÜV NORD CERT GmbH
Langenmarkstrasse 2045141 - D Essen

Esslingen, den / the / le 01.04.2010

Götz Fiessler / Geschäftsführer / Dokumentationsbevollmächtigter / managing director / authorized for documentation / gérant / mandataire de la documentation