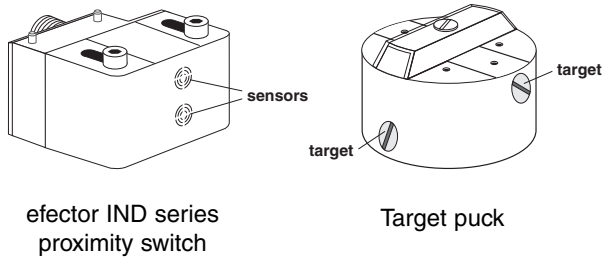


Mounting Instructions

IND Series Proximity Switches / CSA Div. 2

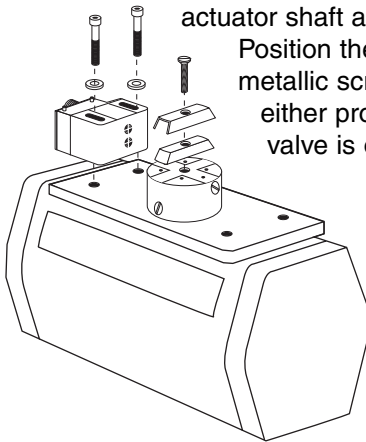
The IND proximity switch is used for reliable indication of rotary valve position. A "target puck" is mounted on the valve actuator shaft. When the valve is opened or closed, the target puck rotates 90° positioning a screw head within the sensing range of one of the proximity switches. The switched output is used to provide feedback on the position of the rotary valve.



Installation

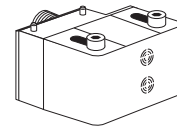
The IND proximity switch mounts directly in the holes normally used to attach a standard switchbox bracket to an actuator. The puck is placed on the actuator shaft and is keyed for alignment.

Position the target puck so that the metallic screw heads will activate either proximity switch when the valve is opened or closed.

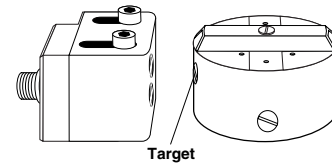


Simple Operation

The Model IND has two proximity switches in a compact sealed housing . . .

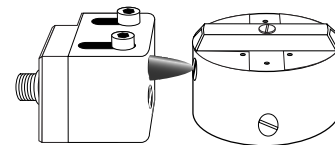


. . . and detects two metallic screws located 90° apart at two different heights in a target puck mounted on the actuator shaft.



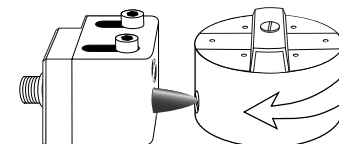
When the valve is open, one of the screws is directly in front of the sensor and you receive a positive valve open signal. In this case, the screw is in the top position to indicate normally open.

A1 LED = on
A2 LED = off



Close the valve and the other screw moves into position for a positive valve closed signal.

A1 LED = off
A2 LED = on



WARNING

Explosion Hazard — substitution of components may impair suitability of Class 1, Div. 2.

CAUTION

Nonmetallic enclosure does not provide grounding between conduit connections. Use grounding type bushing and jumper wires.

Use only ifm efector conduit adapters (U30029, U30030, U30031) or other CSA certified conduit adapters.

ELECTRICAL



DO NOT operate an incandescent light bulb as a load. The current inrush when the bulb is cold can cause a current overload.



DO NOT operate a proximity sensor directly from a voltage supply without a load. This is a short circuit and can cause damage. Note: insert a miniature fuse according to the technical data sheet, if specified.



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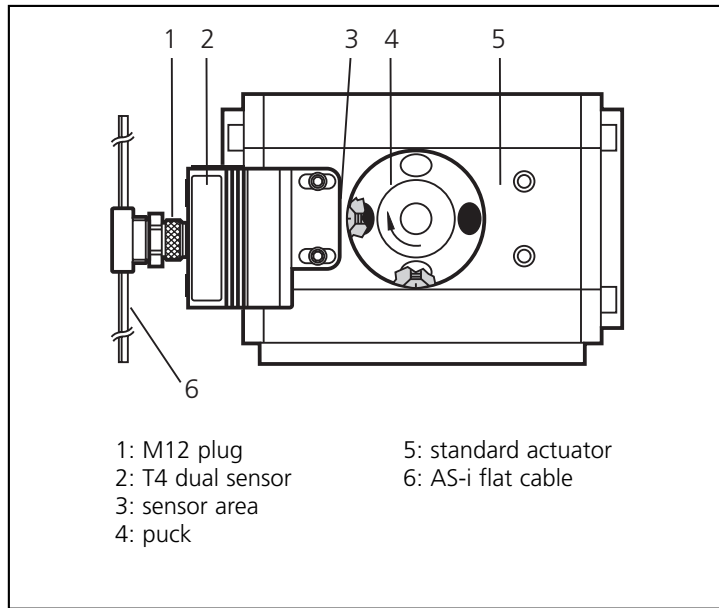
Concerning Safety...ifm efector makes every effort to build a dependable product, but every product will eventually fail. Therefore, your equipment must be designed to prevent property damage and personal injury if our products fail. ifm efector proximity switches are not designed to be used as stand-alone devices to protect or guard human life or limb.

Function and features

The T4 dual sensor is a slave in the AS-i system (AS-i profile S-0.A.F). It is designed for use on pneumatic valve actuators.

- Sensor supply as well as data transfer to the controller via AS-i flat cable

Operation and display elements



Installation

Address the T4 dual sensor with an addressing unit, address „0“ is set at the factory. Fasten it to the valve fixings according to the standards (ISO 5211 VDI/VDE).

Data bits

Data bit	Type	Designation	Description
D0	input	sensor 1	sensor position1 damped
D1	input	sensor 2	sensor position2 damped

Connection

4	3	M12 plug	pin
		AS-i +	1
		AS-i -	3

Operation

Check the safe functioning of the unit. Display by LEDs.

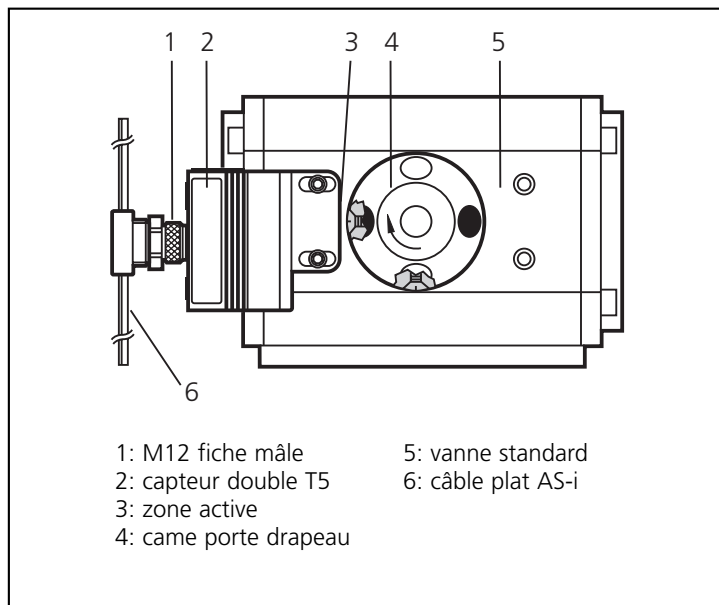
- LED is lit: no communication with the master
- Yellow LED is lit: function display (input and output signals are displayed)

Fonctionnement et caractéristiques

Le capteur double T4 est un esclave AS-i (profil AS-i S-0.A.F). Il est conçu pour l'utilisation sur des actionneurs de vannes

- Alimentation des capteurs à l'aide du câble plat AS-i

Éléments de service et d'indication



Montage

Adresser le capteur double T4 à l'aide d'une unité d'adressage (l'adresse „0“ étant présélectionnée à l'usine). Le fixer sur la vanne selon les normes (ISO 5211 VDI/VDE).

Affectation des bits de données

Bit de données	Type	Désignation	Description
D0	entrée	capteur 1	position 1 de la vanne
D1	entrée	capteur 2	position 2 de la vanne

Raccordement

4	3	M12 fiche mâle	broche
		AS-i +	1
		AS-i -	3

Fonctionnement

Vérifier le bon fonctionnement du capteur double. Indication par LED.

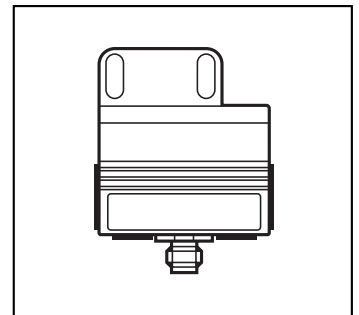
- LED rouge allumée: aucune communication avec le maître
- LED jaune allumée: indication de fonctionnement (les signaux d'entrées et de sortie sont indiqués)

Montageanleitung
Installation instructions
Notice de montage

AS interface

Doppelsensor T4
Dual sensor T4
Capteur double T4
AC2315

Sachnr. 7390482/00 07/2004

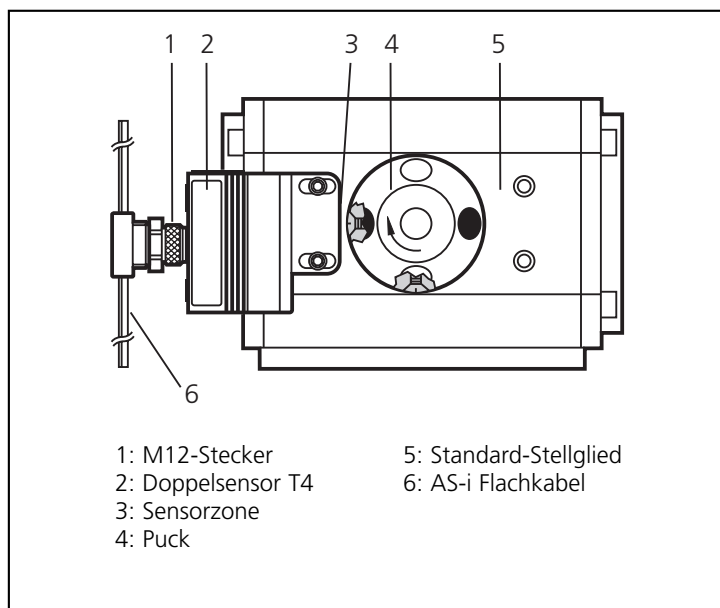


Bestimmungsgemäße Verwendung

Der Doppelsensor T4 fungiert als Slave im AS-i Netz (AS-i Profil S-0.A.F). Er ist für den Einsatz an pneumatischen Schwenkantrieben konzipiert.

- Sensorversorgung sowie Datenübermittlung zur Steuerung über AS-i Flachkabel

Bedien- und Funktionselemente



Montage

Adressieren Sie den Doppelsensor T4 mit einem Adressiergerät, werksseitig ist die Adresse „0“ eingestellt. Befestigen Sie ihn an der Normbefestigung des Stellglieds (ISO 5211 VDI / VDE).

Belegung der Datenbits

Datenbit	Typ	Bezeichnung	Beschreibung
D0	Eingang	Sensor 1	Sensor-Position 1 bedämpft
D1	Eingang	Sensor 2	Sensor-Position 2 bedämpft

Anschlußbelegung

	M12-Stecker	Pin
	AS-i +	1
	AS-i -	3

Betrieb

Prüfen Sie, ob das Gerät sicher funktioniert. Anzeige durch LEDs.

- LED rot leuchtet: keine Kommunikation zum Master
- LED gelb leuchtet: Funktionsanzeige (Ein- und Ausgangssignale werden angezeigt)