



# HART Multiplexer Slave

## KFD0-HMS-16

- 16-channel
- No external power required
- HART field device input (revision 5 to 7)
- Used with HART Multiplexer Master KFD2-HMM-16
- Up to SIL 3 acc. to IEC 61508

### HART Multiplexer Slave



SIL 3



### Function

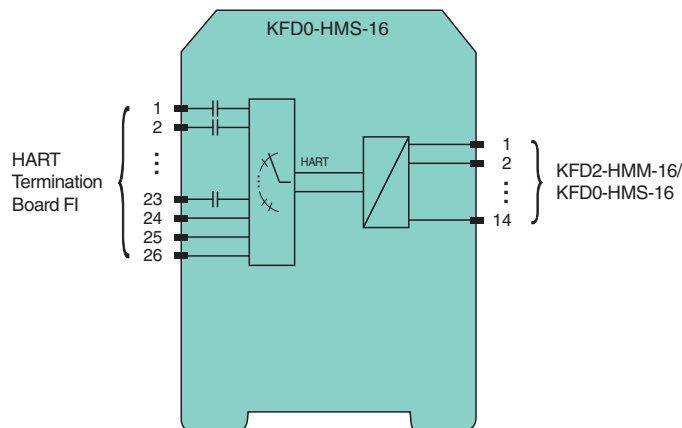
This HART Multiplexer Slave operates up to 16 analog field instruments. It can be operated only with the HART Multiplexer Master KFD2-HMM-16 and is powered by the master across a 14-pin flat cable connection.

Up to 15 slaves can be connected to the master.

The slave address is set with a 16-position rotary switch (addresses 1 ... 16). If only one slave is connected to the master, then the slave address should be 1. If multiple slaves are connected, slaves must be assigned addresses in ascending order.

The analog signals are fed into the slave by means of a 26-pin flat cable. Sixteen leads are reserved for the HART signal of the analog measurement circuits. The remaining 10 leads are assigned to ground.

### Connection



Zone 2

### Technical Data

#### Functional safety related parameters

Safety Integrity Level (SIL) SIL 3

#### Supply

Connection via 14-channel flat cable form master KFD2-HMM-16

#### HART signal channels (non-intrinsically safe)

Conformity HART field device input (revision 5 to 7)

Connection 26-pin flat cable for analog connections  
14-pin flat cable for master-slave connection between KFD2-HMM-16 and KFD0-HMS-16

Leakage current < 3  $\mu$ A at -20 ... 85 °C (-4 ... 185 °F)

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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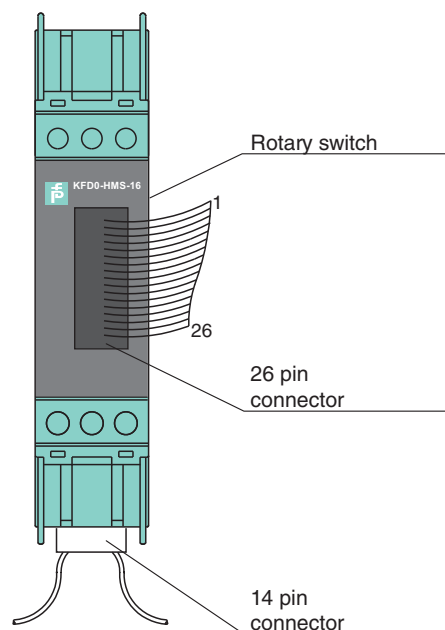
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## Technical Data

Terminating resistor	external 230 ... 500 $\Omega$ standard (up to 1000 $\Omega$ possible)
Output voltage	$\geq 400$ mV <sub>ss</sub> (with the terminator resistance specified above)
Output resistance	100 $\Omega$ or smaller, capacitive coupling
Input impedance	according to HART specification
Input voltage range	0.08 ... 4 V <sub>ss</sub> ; typ. $\pm 5.2$ V as local reference
<b>Indicators/settings</b>	
Labeling	space for labeling at the front
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
<b>Conformity</b>	
Degree of protection	IEC 60529:2001
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
<b>Mechanical specifications</b>	
Degree of protection	IP20
Mass	approx. 100 g
Dimensions	20 x 93 x 115 mm (0.8 x 3.7 x 4.5 inch) , housing type B1
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
<b>Data for application in connection with hazardous areas</b>	
Certificate	PF 07 CERT 1143 X
Marking	Ⓜ II 3G Ex nA IIC T4 Gc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-15:2010
<b>General information</b>	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

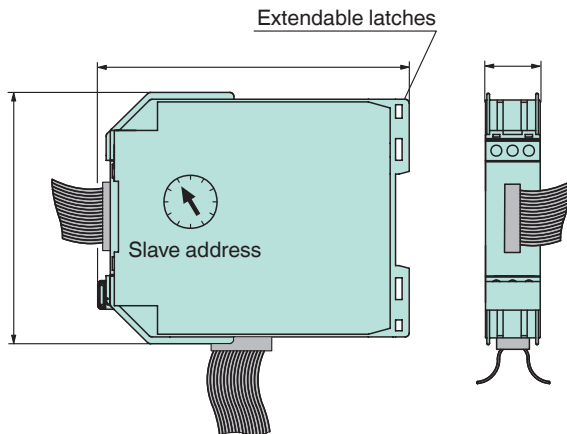
## Assembly

### Front view










## Commissioning

### Dimensions



## Matching System Components

	<b>KFD2-HMM-16</b>	HART Multiplexer Master
	<b>PACTware 5.X</b>	FDT Framework
	<b>DTM Generic HART</b>	Device type manager (DTM) for HART communication
	<b>DTM HART Comm</b>	Device type manager (DTM) for HART communication
	<b>DTM HART Multiplexer</b>	Device type manager (DTM) for HART communication
	<b>K-HM14</b>	HART connection cable for master - slave connection
	<b>FI-PFH-NS0137-R</b>	HART termination board for K-System HART Multiplexer

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