



ACTIVE FIELD DISTRIBUTOR AFDIS FISCO FIELD BARRIER FOR PROFIBUS PA FOR FOUNDATION FIELDBUS H1 6 SHORT-CIRCUIT PROOF AND INTRINSICALLY SAFE SPURS WITH CHATTER SUPPRESSION LOGIC INTEGRATED FIELDBUS REPEATER AUTOMATIC BUS TERMINATION FOR LINE- AND RING-TOPOLOGY FOR ENHANCED TEMPERATURE RANGE PROTECTION CLASS IP 66

General information	
Hardware product version	01
Product function	
Repeater function	Yes
Operator control and monitoring	
Illuminant	LED
Supply voltage	
Description	via fieldbus
permissible range, lower limit (DC)	16 V
permissible range, upper limit (DC)	32 V
Reverse polarity protection	Yes ; only in conjunction with FDC 157
Overvoltage protection	No
Input current	
Current consumption, max.	400 mA ; at 20 V input voltage
Current consumption in the case of short-circuit at all spur lines	100 mA ; at 24 V input voltage
Power loss	
Power loss, typ.	1.4 W ; minimum - typ. specification not possible because load-dependent

Power loss, max.	5.9 W
Interfaces	
PROFIBUS DP	No
FOUNDATION Fieldbus H1	Yes
AS-Interface	No
PROFIBUS PA	
PROFIBUS PA	Yes
Transmission rate, max.	31.25 kbit/s
Number of connectable PA field devices	6
Current output to PA field devices, max.	260 mA
permissible current per spur line	40 mA ; first spur line 60 mA
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	
Alarms	No
Diagnostic messages	
Diagnostic functions	Yes
Diagnostics indication LED	
Status main line	Yes
Main line failure	Yes
Status/fault spur line	Yes
automatic bus termination	Yes
Galvanic isolation	
between main line and spur lines	Yes
Isolation	
Isolation tested with	2550 V DC
Degree and class of protection	
IP66	Yes
Standards, approvals, certificates	
Use in hazardous areas	
EX Zone 1	Yes
EX zone 11	No ; EX zone 21
EX zone 2	Yes
EX zone 22	Yes
Class I Zone 1	Yes
Class I Zone 2, Division 2	Yes
Test number KEMA	10 ATEX 0055
Type of protection acc. to KEMA	10 ATEX 0055

Ambient conditions	
Operating temperature	
min.	-40 °C
max.	70 °C
Storage/transport temperature	
min.	-40 °C
max.	85 °C
Relative humidity	
Operation, max.	95 %
Connection method	
Main line	
Number of main lines	2
Design of terminals	Screw terminal block
Type of connection (enclosure cable gland)	M16
Type of cable	Type A
Cable diameter, min.	4 mm
Cable diameter, max.	9 mm
Conductor cross-section, min.	0.2 mm ²
Conductor cross-section, max.	2.5 mm ²
automatic bus termination	Yes
permissible main line current	1 A
Spur line	
Number of spur lines	6
Design of terminals	Screw terminal block
Type of connection (enclosure cable gland)	M16
Type of cable	Type A
Cable diameter, min.	4 mm
Cable diameter, max.	9 mm
Conductor cross-section, min.	0.2 mm ²
Conductor cross-section, max.	2.5 mm ²
total current output to field devices, max.	260 mA
Number of connectable field devices	6
Current limitation per field device, max.	40 mA ; 60 mA on S1
No-load voltage, max.	15.3 V ; on spur lines
short-circuit proof	Yes
Short-circuit current (test current); max.	5 mA ; on spur lines
intrinsically safe according to FISCO model	Yes
Debounce logic	Yes

Dimensions	
Width	380 mm
Height	85 mm
Depth	170 mm
Weights	
Weight, approx.	4500 g
Status	Jul 21, 2014