

- ▶ Ideal for ejection control under rugged operating conditions
- ▶ Active aperture width 80mm
- ▶ Dynamic functionality
- ▶ Especially robust design, protected optics
- ▶ High object resolution (adjustable)
- ▶ Manual adjustment via robust metal potentiometer



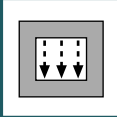
▶ TECHNICAL DATA

**DYNAMIC
FRAME SENSOR FS080**

MODEL	FS080-040	FS080-080	FS080-120	FS080-160
Operating voltage	10...30 VDC, reverse polarity protection			
Current consumption	40mA	45mA	60mA	75mA
Output	PNP and NPN at the same time, 200mA, short circuit proof			
Functional principle	dynamic			
Switching function	dark-on			
Light type	infrared			
Operating state indicator	LED green			
Function indicator	LED red			
Response time	400µsec			
Pulse stretching (only dyn. function)	5ms to 300ms (adjustable)			
Operating temperature	-10°C to +55°C			
Protection class	IP67			
Housing material	aluminium, black anodized			
Filter material	PMMA			
Counting frequency	function of pulse stretching (max. 200 parts/s)			
Connector	01: M8 locking device, 4pin*			
	02: Pigtail 20cm, M12, 4pin			

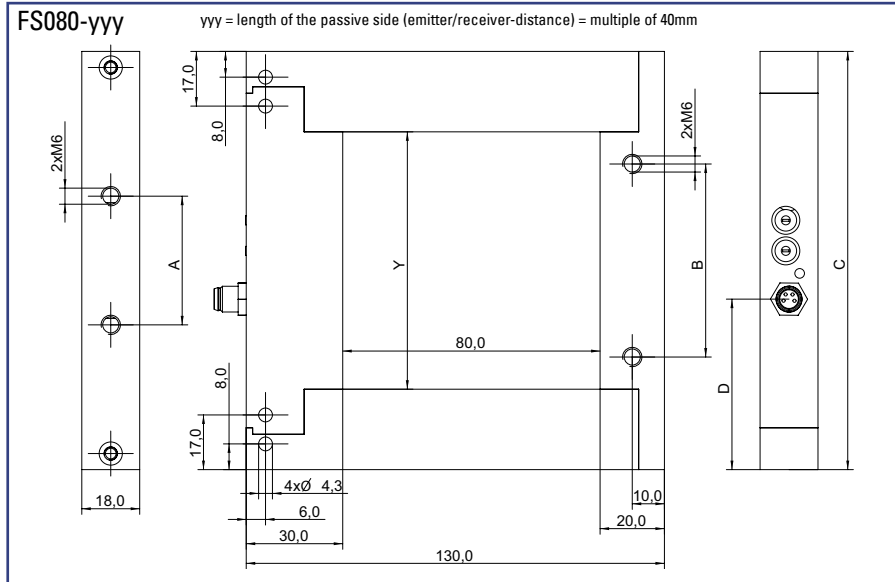
* supply cable to be ordered separately

opening xxx-yyy (mm)	80x40	80x80	80x120	80x160
max. object resolution (mm)	1,0	1,0	1,2	1,5



FS080-yyy-DP/N

DIMENSIONS Measurements in mm. Subject to technical change.

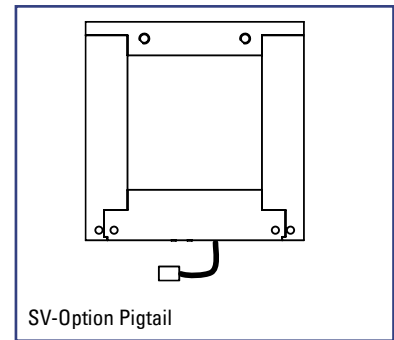


* mounting holes with XXX/Ø80 dimensions, ** mounting holes with XXX/120 dimensions, *** 40mm if YYY=040

OPERATING CONTROLS

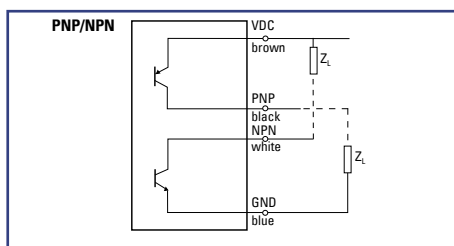


- power supply indicator (Power) LED green
- function indicator dyn. (Signal) LED red
- resolution dyn. (Sensitivity)
- pulse stretching (Duration)



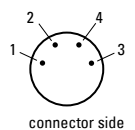
MODEL	Y:	A:	B:	C:	D:
FS080-040	40	-	20	90	33
FS080-080	80	40	60	130	53
FS080-120	120	80	100	170	73
FS080-160	160	120	140	210	93

CONNECTION DIAGRAM

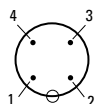


PIN CONNECTION

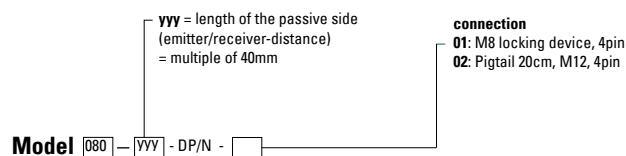
- 01:
 1 (brown) + VDC
 2 (white) NPN-output
 3 (blue) - GND
 4 (black) PNP-output



- 02:
 1 (brown) + VDC
 2 (white) NPN-output
 3 (blue) - GND
 4 (black) PNP-output



PART DESIGNATION



ORDER EXAMPLE

FS080-120-DP/N-01 = standard frame sensor 080mm-120mm - dynamic dark-on/output PNP and NPN - M8, 4pin

Please do not forget to order the appropriate power supply cable (see accessories).